



ELSEVIER

Research Policy 28 (1999) 921-951

research
policy

Author Index Volumes 1-28

- Abernathy, W.J., *see* Rosenbloom, R.S., 11 (1982) 209
- Abernathy, W.J. and K.B. Clark, Innovation: Mapping the winds of creative destruction 14 (1985) 3
- Abernathy, W.J. and K.B. Clark, Innovation: Mapping the winds of creative destruction 22 (1993) 102
- Abraham, J., *see* Irvine, J., 16 (1987) 213
- Achilladelis, B., A. Schwarzkopf and M. Cines, A study of innovation in the pesticide industry: Analysis of the innovation record of an industrial sector 16 (1987) 175
- Achilladelis, B., A. Schwarzkopf and M. Cines, The dynamics of technological innovation: The case of the chemical industry 19 (1990) 1
- Achilladelis, B., The dynamics of technological innovation: The sector of antibacterial medicines 22 (1993) 279
- Afuah, A.N. and N. Braham, The hypercube of innovation 24 (1995) 51
- Aggeri, F., Environmental policies and innovation: a knowledge-based perspective on cooperative approaches 28 (1999) 699
- Ahrens, H.J., R. Coenen, L. Czayka, I. Karst, H. Weyand, G. Beker, B. Wingert, H.G. Kruse, H. Krauch, F. Niwa, G. Bechmann, I. v. Berg, G. Brosi and H. Folkers, Priorities in research policy 2 (1973/74) 94
- Aked, N.H. and P.J. Gummert, Science and technology in the European communities: the history of the COST projects 5 (1976) 270
- Al-Timimi, W., Innovations led expansion: the shipbuilding case 4 (1975) 160
- Alam, G. and J. Langrish, Government and its utilization by industry 13 (1984) 55
- Albert, M.B., D. Avery, F. Narin and P. McAllister, Direct validation of citation counts as indicators of industrially important patents 20 (1991) 251
- Alcorta, L. and W. Peres, Innovation systems and technological specialization in Latin America and the Caribbean 26 (1998) 857
- Aldrich, H.E. and T. Sasaki, R & D consortia in the United States and Japan 24 (1995) 301
- Allen, T.J., D.B. Hyman and D.L. Pickney, Transferring technology to the small manufacturing firm: A study of technology transfer in three countries 12 (1983) 199
- Allen, T.J., Government influence on process of innovation in Europe and Japan 22 (1993) 101
- Allen, Th.J., J.M. Utterback, M.A. Sirbu, N.A. Ashford and J.H. Hollomon, Government influence on the process of innovation in Europe and Japan 7 (1978) 124
- Amable, B. and S. Palombarini, Technical change and incorporated R & D in the service sector 27 (1998) 655
- Amann, R. and J. Slama, The organic chemicals industry of the USSR: a case study in the measurement of comparative technological sophistication by means of kilogram-prices 5 (1976) 302
- Amara, N., *see* Landry, R., 27 (1998) 901
- Amendola, G., The diffusion of synthetic materials in the automobile industry: Towards a major breakthrough? 19 (1990) 485
- Amendola, M. and S. Bruno, The behavior of the innovative firm: Relations to the environment 19 (1990) 419
- Amendola, M. and J.L. Gaffard, Markets and organizations as coherent systems of innovations 23 (1994) 627
- Amesse, F., C. Desranleau, H. Etemad, Y. Fortier and L. Seguin-Dulude, The individual inventor and the role of entrepreneurship: A survey of the Canadian evidence 20 (1991) 13
- Amesse, F., *see* De Bresson, C., 20 (1991) 363
- Amir, S., Environmental research in Israel: On the need for a novel organizational change 16 (1987) 17
- Anand, H.R. and J. Haberer, Scientific and political orientation of American scientists 7 (1978) 26
- Anderson, F., *see* Dalpé, R., 24 (1995) 563
- Antonelli, C., The international diffusion of new information technologies 15 (1986) 139
- Antonelli, C., The role of technological expectations in a mixed model of international diffusion process innovations: The case of open-end spinning rotors 18 (1989) 273
- Aram, J.D., L.H. Lynn and N.M. Reddy, Institutional relationships and technology commercialization: limitations of market-based policy 21 (1992) 409

- Aram, J.D., *see* Lynn, L.H., 25 (1997) 91
- Arcangeli, F., G. Dosi and M. Moggi, Patterns of diffusion of electronics technologies: An international comparison with special reference to the Italian case 20 (1991) 515
- Arcangeli, F., *see* Belussi, F., 27 (1998) 415
- Archibugi, D., Innovation policy making in a federalist system: Lessons from the states for U.S. federal innovation policy making 20 (1991) 199
- Archibugi, D. and M. Pianta, Specialization and size of technological activities in industrial countries: The analysis of patent data 21 (1992) 79
- Archibugi, D., *see* Evangelista, R., 26 (1998) 521
- Archibugi, D. and S. Iammarino, The policy implications of the globalisation of innovation 28 (1999) 317
- Arnon, N., *see* Teubal, M.N., 5 (1976) 354
- Arnow, K.S., University research grants management: Accountability viewed as an exchange- the U.S. case 10 (1981) 46
- Arora, A. and A. Gambardella, The changing technology of technological change: general and abstract knowledge and the division of innovative labour 23 (1994) 523
- Arora, A., *see* Kelley, M.R., 25 (1997) 265
- Arora, A., Patents, licensing, and market structure in the chemical industry 26 (1998) 391
- Arundel, A. and I. Kabla, What percentage of innovations we patented? Empirical estimates for European firms 27 (1998) 127
- Arvanitis, R., *see* Pirella, A., 22 (1993) 431
- Ashford, N.A., *see* Allen, Th.J., 7 (1978) 124
- Atkinson, R.D., Innovation policy making in a federalist system: Lessons from the states for US. Federal innovation policy making 20 (1991) 559
- Auriol, L., *see* Radosevic, S., 28 (1999) 351
- Autio, E., New, technology-based firms in innovation networks symplectic and generative impacts 26 (1998) 263
- Autio, E. and H. Ily-Renko, New, technology-based firms in small open economies - An analysis based on the Finnish experience 26 (1998) 973
- Averch, H.A., Exploring the cost-efficiency of basic research funding in chemistry 18 (1989) 165
- Averch, H.A., The political economy of R & D taxonomies 20 (1991) 179
- Avery, D., *see* Albert, M.B., 20 (1991) 251
- Ariel, D., Scientists as consultants to industry in a developing country: An analysis of their roles and economic effectiveness. 10 (1981) 244
- Baark, E., The value of technology: A survey of the Chinese theoretical debate and its policy implications 17 (1988) 269
- Baba, Y., S. Takai and Y. Mizuta, The Japanese software industry: the 'hub' structure approach 24 (1995) 473
- Baba, Y. and K. Nobeoka, Towards knowledge-based product development: the 3-D CAD model of knowledge creation 26 (1998) 643
- Bahram, N., *see* Afuah, A.N., 24 (1995) 51
- Baietti, A.J. and J.R. Callahan, Managing consistency between product development and public standards evolution 24 (1995) 913
- Baker, N.R. and D.J. Sweeney, Toward a conceptual framework of the process of organized technological innovation within the firm 7 (1978) 150
- Balázás, K., Lessons from an economy with limited market functions: R & D in Hungary in the 1980s 22 (1993) 537
- Baldwin, J.R. and J. Johnson, Business strategies in more- and less- innovative firms in Canada 25 (1997) 785
- Balfoort, C.L., *see* Vos, C.M., 18 (1989) 51
- Ball, D.F., *see* Hutcheson, P., 25 (1997) 25
- Bally, Y.W., *see* Spangenberg, J.F.A., 19 (1990) 239
- Balmer, B. and M. Sharp, The battle for biotechnology: Scientific and technological paradigms and the management of biotechnology in Britain in the 1980s 22 (1993) 463
- Baptista, R. and P. Swann, Do firms in clusters innovate more? 27 (1998) 525
- Bar-El, R., *see* Felsenstein, D., 18 (1989) 239
- Barras, R., Towards a theory of innovation in services 15 (1986) 161
- Barras, R., Interactive innovation in financial and business services: The vanguard of the service revolution 19 (1990) 215
- Barras, R., Interactive innovation in financial and business services: The vanguard of the service revolution 22 (1993) 101
- Barré, R., *see* Zitt, M., 28 (1999) 545
- Barry, A., Technical and political change in basic research: The case of the European X-Ray Observatory Satellite 20 (1991) 261
- Baruch, J.J., Service cost: an approach to technological policy 4 (1975) 46
- Basberg, B.L., Technological change in the Norwegian whaling industry: A case study in the use of patent-statistics as a technology indicator 11 (1982) 163
- Basberg, B.L., Foreign patenting in the U.S. as a technology indicator 12 (1983) 227
- Basberg, B.L., Patents and the measurement of technological change: A survey of the literature 16 (1987) 131

- Battisti, G., *see* Stoneman, R., 27 (1998) 187
- Bayliss, C.R., Comment on 'Automation in textile machinery' 7 (1978) 99
- Bean, A.S., D.D. Schiffl and M.E. Mogee, The venture capital market and technological innovation 4 (1975) 380
- Bean, A.S. and J.B. Guerard Jr., A comparison of Census/NSF F&D data vs. Compustat R & D data in a financial decision-making model 18 (1989) 193
- Bean, A.S., Introductory note 22 (1993) 99
- Bean, A.S., *see* Greis, N.P., 24 (1995) 609
- Bechmann, G., *see* Ahrens, H.J., 2 (1973/74) 94
- Beise, M. and H. Stahl, Public research and industrial innovations in Germany 28 (1999) 397
- Beker, G., *see* Ahrens, H.J., 2 (1973/74) 94
- Bellini, N., *see* Bianchi, P., 20 (1991) 487
- Belussi, F. and F. Arcangeli, A typology of networks: flexible and evolutionary firms 27 (1998) 415
- Bergeron, S., S. Lallich and C. Le Bas, Location of innovating activities, industrial structure and techno-industrial clusters in the French economy, 1985-1990. Evidence from US patenting 26 (1998) 733
- Berggren, U., CT scanning and ultrasonography: A comparison of two lines of development and dissemination 14 (1985) 213
- Berman, E.M., The economic impact of industry-funded university R & D 19 (1990) 349
- Berry, L.G., *see* Brown, M.A., 20 (1991) 121
- Berry, M.J., High temperature superconductivity research in the USSR 21 (1992) 513
- Berry, M.M.J. and J.H. Taggart, Combining technology and corporate strategy in small high tech firms 26 (1998) 883
- Bessant, J. and B. Haywood, Islands, archipelagoes and continents: Progress on the road to computer integrated manufacturing 17 (1988) 349
- Bessant, J. and H. Rush, Building bridges for innovation: the role of consultants in technology transfer 24 (1995) 97
- Bessant, J., The rise and fall of 'Supernet': a case study of technology transfer policy for smaller firms 28 (1999) 601
- Bessant, J.R., Influential factors in manufacturing innovation 11 (1982) 117
- Betsill, M.M., *see* Pielke Jr., R.A., 26 (1998) 157
- Bhanich Supapol, A., The commercialization of government-sponsored technologies: Canadian evidence 19 (1990) 369
- Bianchi, P. and N. Bellini, Public policies for local networks of innovators 20 (1991) 487
- Bianco, L. and P. d'Anselmi, Strengthening the management of public research policy in Italy 15 (1986) 149
- Bidault, F., C. Despres and C. Butler, The drivers of cooperation between buyers and suppliers for product innovation 26 (1998) 719
- Biggs, S.D., Monitoring and control in agricultural research systems: Maize in Northern India 12 (1983) 37
- Bijaoui, I., *see* Kamin, J.Y., 11 (1982) 83
- Bindon, G. and S. Mukerji, Canada-India nuclear cooperation 7 (1978) 220
- Bindon, G. and S. Mukerji, Canada-India nuclear cooperation: A rejoinder to a rebuttal 8 (1979) 191
- Birnbaum-More, P.H., A.R. Weiss and R.W. Wright, How do rivals compete: strategy, technology and tactics 23 (1994) 249
- Blankenship, L.V., Management, politics and science: A non-separable system 3 (1974/75) 244
- Blind, K. and H. Grupp, Interdependencies between the science and technology infrastructure and innovation activities in German regions: empirical findings and policy consequences 28 (1999) 451
- Blume, S.S., Behavioural aspects of research management-a review 3 (1974/75) 40
- Blume, S.S., The significance of technological change in medicine: An introduction 14 (1985) 173
- Blumenthal, D., *see* Gluck, M.E., 16 (1987) 327
- Blumenthal, T., R & D in Israeli industry 7 (1978) 62
- Bodewitz, H., G. de Vries and P. Weeder, Towards a cognitive model for technology-oriented R & D progress 17 (1988) 213
- Boisot, M.H., Is your firm a creative destroyer? Competitive learning and knowledge flows in the technological strategies of firms 24 (1995) 489
- Bollinger, L., K. Hope and J.M. Utterback, A review of literature and hypotheses on new technology based firms 12 (1983) 1
- Bonen, Z., Evolutionary behavior of socio-technical systems 10 (1981) 26
- Bornstein, M., Pricing research and development services in the USSR 13 (1984) 85
- Boschma, R.A., The rise of clusters of innovative industries in Belgium during the industrial epoch 28 (1999) 851
- Bosworth, D.L., Recent trends in research and development in the United Kingdom 8 (1979) 164
- Bosworth, D.L., The transfer of U.S. technology abroad 9 (1980) 378
- Bosworth, D.L., Foreign patent flows to and from the United Kingdom 13 (1984) 115
- Bourke, P. and L. Butler, Institutions and the map of science: matching university departments and fields of research 26 (1998) 711
- Bourke, P. and L. Butler, The efficacy of different modes of funding research: perspectives from Australian data on the biological sciences 28 (1999) 489
- Bozeman, B., K. Roering and E.A. Slusher, Social structures and the flow of scientific information in public agencies: An ideal design 7 (1978) 384
- Bozeman, B. and A.N. Link, Tax incentives for R & D: A critical evaluation 13 (1984) 21

- Bozeman, B., *see* Crow, M., 16 (1987) 229
- Bozeman, B., *see* Kingsley, G., 25 (1997) 967
- Braun, D., The role of funding agencies in the cognitive development of science 27 (1998) 807
- Breemhaar, B., *see* Spangenberg, J.F.A., 19 (1990) 239
- Breizman, A., *see* Narin, F., 24 (1995) 507
- Bresson, C. and J. Townsend, Notes on the inter-industrial flow of technology in post-war Britain 7 (1978) 48
- Brickman, R., French policy and the changing role of the university 6 (1977) 128
- Brisolla, S.N., *see* Etzkowitz, H., 28 (1999) 337
- Brockhoff, K., The measurement of goal attainment of governmental R & D support 12 (1983) 171
- Brooks, H., The relationship between science and technology 23 (1994) 477
- Brosi, G., *see* Ahrens, H.J., 2 (1973/74) 94
- Brouwer, E. and A. Kleinknecht, Measuring the unmeasurable: a country's non-R & D expenditure on product and service innovation 25 (1997) 1235
- Brouwer, E. and A. Kleinknecht, Innovative output, and a firm's propensity to patent 28 (1999) 615
- Brown, M.A., The cost of commercializing energy inventions 19 (1990) 147
- Brown, M.A., L.G. Berry and R.K. Goel, Guidelines for successfully transferring government-sponsored innovations 20 (1991) 121
- Brown, M.A., T.R. Curlee and S.R. Elliott, Evaluating technology innovation programs: the use of comparison groups to identify impacts 24 (1995) 669
- Bruder, W., Innovation behavior of small and medium-scale firms: Reform possibilities for R & D policy-making on the federal state level in the Federal Republic of Germany 12 (1983) 213
- Bruno, S., *see* Amendola, M., 19 (1990) 419
- Buesa, M., *see* Molero, J., 22 (1993) 265
- Buesa, M., *see* Molero, J., 25 (1997) 647
- Bughin, J. and J.M. Jacques, Managerial efficiency and the Schumpeterian link between size, market structure and innovation revisited 23 (1994) 653
- Buijs, J.A., Innovation can be taught 16 (1987) 303
- Burger, W.J.M., *see* Moed, H.F., 14 (1985) 131
- Burke, J.F., *see* Thomas, S.M., 24 (1995) 645
- Burns, E.M. and K.E. Studer, Reflections on Alvin M. Weinberg: a case study on the social foundations of science policy 4 (1975) 28
- Burns, E.M. and K.E. Studer, Reply to Alvin M. Weinberg 5 (1976) 201
- Butler, C., *see* Bidault, F., 26 (1998) 719
- Butler, L., *see* Bourke, P., 26 (1998) 711
- Butler, L., *see* Bourke, P., 28 (1999) 489
- Buzzacchi, L., M.G. Colombo and S. Mariotti, Technological regimes and innovation in services: the case of the Italian banking industry 24 (1995) 151
- Cadena, G., *see* Waissbluth, M., 17 (1988) 341
- Cainarca, C.C., M.G. Colombo and S. Mariotti, An evolutionary pattern of innovation diffusion. The case of flexible automation 18 (1989) 59
- Cainarca, G.C., M.G. Colombo and S. Mariotti, Agreements between firms and the technological life cycle model: Evidence from information technologies 21 (1992) 45
- Callahan, J.R., *see* Bailetti, A.J., 24 (1995) 913
- Callon, M., The State and technical innovation: A case study of the electrical vehicle in France 9 (1980) 358
- Callon, M., P. Laredo, V. Rabeharisoa, T. Gonard and T. Leray, The management and evaluation of technological programs and the dynamics of techno-economic networks: The case of the AFME 21 (1992) 215
- Callon, M., *see* Mangematin, V., 24 (1995) 441
- Cambrosio, A., *see* Mackenzie, M., 17 (1988) 155
- Camí, J., *see* Gómez, I., 24 (1995) 459
- Cannon, C.M. and K. Grossfield, Public bodies as entrepreneurs 8 (1979) 154
- Cantwell, J., Technology and the firm: introduction 27 (1998) iii
- Cantwell, J. and O. Janne, Technological globalisation and innovative centres: the role of corporate technological leadership and locational hierarchy 28 (1999) 119
- Carlsson, B., The content of productivity growth in Swedish manufacturing 10 (1981) 336
- Carlsson, B., The content of productivity growth in Swedish manufacturing 22 (1993) 102
- Carlsson, B. and S. Jacobsson, Technological systems and economic policy: the diffusion of factory automation in Sweden 23 (1994) 235

- Carter, A.P., Knowhow trading as economic exchange 18 (1989) 155
- Casimir, G.B., Industries and academic freedom 1 (1971/72) 3
- Cassiman, B., *see* Veugelers, R., 28 (1999) 63
- Castagnos, J.C. and C. Echevin, The strategy of university research laboratories in France 14 (1985) 345
- Catling, H. and R. Rothwell, Automation in textile machinery 6 (1977) 164
- Chakrabarti, A.K., *see* Rajan, J.V., 10 (1981) 172
- Chakrabarti, A.K., Innovation and productivity: An analysis of the chemical, textiles and machine tool industries in the U.S 19 (1990) 257
- Chang, H. and D. Dieks, The Dutch output of publications in physics 5 (1976) 380
- Chapman, I.D., C. Farina and M. Gibbons, The funding of university research: A comparative study of the United Kingdom and Canada 11 (1982) 15
- Chapman, I.D. and C. Farina, Peer Review and national need 12 (1983) 317
- Charles, D., *see* Rappert, B., 28 (1999) 871
- Chaudhuri, S., Technological innovation in a research laboratory in India: A case study 15 (1986) 89
- Chen, C.F. and G. Sewell, Strategies for technological development in South Korea and Taiwan: the case of semiconductors 25 (1997) 759
- Chen, S.H., Decision making in research and development collaboration 26 (1998) 121
- Christensen, C.M. and R.S. Rosenbloom, Explaining the attacker's advantage: technological paradigms, organizational dynamics, and the value network 24 (1995) 233
- Christensen, J.F., Asset profiles for technological innovation 24 (1995) 727
- Cines, M., *see* Achilladelis, B., 16 (1987) 175
- Cines, M., *see* Achilladelis, B., 19 (1990) 1
- Clark, K.B., *see* Abernathy, W.J., 14 (1985) 3
- Clark, K.B., The interaction of design hierarchies and market concepts in technological evolution 14 (1985) 235
- Clark, K.B., *see* Abernathy, W.J., 22 (1993) 102
- Clark, N., Organizational aspects of Nigeria's research system 9 (1980) 148
- Clark, N.G., Science, technology and regional economic development 1 (1971/72) 296
- Clarysse, B., K. Debackere and M.A. Rappa, Modelling the persistence of organizations in an emerging field: the case of hepatitis C 25 (1997) 671
- Coenen, R., The use of technological forecasts in government planning 1 (1971/72) 156
- Coenen, R., *see* Ahrens, H.J., 2 (1973/74) 94
- Coker, K., *see* Kingsley, G., 25 (1997) 967
- Collins, P. and S. Wyatt, Citations in patents to the basic research literature 17 (1988) 65
- Colombo, M.G., *see* Cainarca, C.C., 18 (1989) 59
- Colombo, M.G., *see* Cainarca, G.C., 21 (1992) 45
- Colombo, M.G., *see* Buzzacchi, L., 24 (1995) 151
- Colombo, M.G. and P. Garonne, Technological cooperative agreements and firms' R & D intensity, A note on causality relations 25 (1997) 923
- Colombo, U., A Viewpoint on innovation and the chemical industry 9 (1980) 204
- Colton, R.M., Rejoinder to 'Government policies for technological innovation' by Robbins and Milliken 6 (1977) 241
- Conn, W.D., The neglect of socio-economic research by US energy and environmental agencies 7 (1978) 198
- Cooke, P., M. Gomez Uranga and G. Extbarria, Regional innovations systems: Institutional and organisational dimensions 26 (1998) 475
- Coombs, R., *see* Gibbons, M., 11 (1982) 289
- Coombs, R., P. Narandren and A. Richards, A literature-based innovation output indicator 25 (1997) 403
- Coombs, R. and R. Hull, 'Knowledge management practices' and path-dependency in innovation 27 (1998) 237
- Cooray, N., Knowledge accumulation and technological advance: The case of synthetic rubber 14 (1985) 83
- Cordero, R., The measurement of innovation performance in the firm: An overview 19 (1990) 185
- Cordes, J.J., Tax incentives and R & D spending: A review of the evidence 18 (1989) 119
- Cottrell, T., Fragmented standards and the development of Japan's microcomputer software industry 23 (1994) 143
- Courtial, J.P. and J.C. Remy, Towards the 'cognitive management' of a research institute 17 (1988) 225
- Courtial, J.P., *see* Turner, W.A., 19 (1990) 467
- Cowan, R. and D. Foray, Quandaries in the economics of dual technologies and spillovers from military to civilian research and development 24 (1995) 851
- Cozzens, S., *see* Leydesdorff, L., 23 (1994) 217
- Craig, B., *see* Pardey, P.G., 18 (1989) 289
- Cramer, J., Options for mission-orientation in ecology 17 (1988) 75

- Crane, D., Technological innovation in developing countries: a review of the literature 6 (1977) 374
- Crow, M. and B. Bozeman, R & D laboratory classification and public policy: The effect of environmental context on laboratory behavior. 16 (1987) 229
- Curlee, T.R., *see* Brown, M.A., 24 (1995) 669
- Cusumano, M.A. and K. Nobeoka, Strategy, structure and performance in product development: Observations from the auto industry 21 (1992) 265
- Cusumano, M.A., Shifting economies: From craft production to flexible systems and software factories 21 (1992) 453
- Cusumano, M.A. and D. Elenkov, Linking international technology transfer with strategy and management: a literature commentary 23 (1994) 195
- Czayka, L., The importance of graph theory in research planning 1 (1971/72) 60
- Czayka, L., *see* Ahrens, H.J., 2 (1973/74) 94
- Czerwon, H.J., *see* Englisch, H., 19 (1990) 477
- d'Anselmi, P., *see* Bianco, L., 15 (1986) 149
- da Silveira, J.M., *see* Possas, M.L., 25 (1997) 933
- Daghfous, A. and G.R. White, Information and innovation: a comprehensive representation 23 (1994) 267
- Dahlman, C.J., *see* Kim, L., 21 (1992) 437
- Dahlstrand, Å.L., Growth and inventiveness in technology-based spin-off firms 26 (1998) 331
- Dalpé, R., C. DeBresson and H. Xiaoping, The public sector as first user of innovations 21 (1992) 251
- Dalpé, R. and F. Anderson, National priorities in academic research strategic research and contract in renewable energies 24 (1995) 563
- Dalton, D.H., *see* Serapio Jr., M.G., 28 (1999) 303
- Daniels, P., Research and development, human capital and trade performance in technology-intensive manufactures: A cross-country analysis 22 (1993) 207
- Daniels, P.L., National technology gaps and trade – an empirical study of the influence of globalisation 25 (1997) 1189
- Dankbaar, B., Social assessment of workplace technology – some experiences with the German program 'Humanization of work' 16 (1987) 337
- Darby, M.R., *see* Zucker, L.G., 26 (1998) 429
- Dasgupta, P. and P.A. David, Toward a new economics of science 23 (1994) 487
- David, P.A., *see* Dasgupta, P., 23 (1994) 487
- David, P.A., From market magic to calypso science policy. A review of Terence Kealey's 'The Economic Laws of Scientific Research' 26 (1998) 229
- Davidson Frame, J. and F. Narin, The United States, Japan and the changing technological balance 19 (1990) 447
- Davis, C.H., *see* Eisemon, T.O., 25 (1997) 107
- De Bresson, C. and F. Amesse, Networks of innovators: A review and introduction to the issue 20 (1991) 363
- de Looze, M.A., *see* Joly, P.B., 25 (1997) 1027
- De Marchi, M., G. Napolitano and P. Taccine, Testing a model of technological trajectories 25 (1997) 13
- de Meyer, A.C.L., The flow of technological innovation in an R & D department 14 (1985) 315
- de Solla Price, D., The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 13 (1984) 1
- de Solla Price, D., The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 22 (1993) 112
- De Vet, J.M. and A.J. Scott, The Southern Californian medical device industry: Innovation, new firm information, and location 21 (1992) 145
- de Vries, G., *see* Bodewitz, H., 17 (1988) 213
- Debackere, K., *see* Van Dierdonck, R., 19 (1990) 551
- Debackere, K. and M.A. Rappa, Institutional variations in problem choice and persistence among scientists in an emerging field 23 (1994) 425
- Debackere, K. and M.A. Rappa, Scientists at major and minor universities: mobility along the prestige continuum 24 (1995) 137
- Debackere, K., *see* Clarysse, B., 25 (1997) 671
- DeBresson, C., *see* Dalpé, R., 21 (1992) 251
- DeBresson, C., Predicting the most likely diffusion sequence of a new technology through the economy: The case of superconductivity 24 (1995) 685
- Degnaars, G.H., *see* Janszen, F.H.A., 27 (1998) 37
- Delapierre, M., B. Madeuf and A. Savoy, NTBFs – the French case 26 (1998) 989
- DeLeon, P., The evaluation of technology R & D: A continuing dilemma 11 (1982) 347

- Den Hond, F., On the structuring of variation in innovation processes: a case of new product development in the crop protection industry 27 (1998) 349
- Desai, A.V., The origin and direction of industrial R & D in India 9 (1980) 74
- Desai, A.V., India's technological capability in the capital goods sector: The case of Singapore 13 (1984) 303
- Desai, A.V., Market structure and technology: Their interdependence in Indian industry 14 (1985) 161
- Despres, C., *see* Bidault, F., 26 (1998) 719
- Desranleau, C., *see* Amesse, F., 20 (1991) 13
- Dibner, M.D., *see* Greis, N.P., 24 (1995) 609
- Dickson, K., The influence of Ministry of Defence funding on semiconductor research and development in the United Kingdom 12 (1983) 113
- Dickson, K., *see* Lawton Smith, H., 20 (1991) 457
- Dieks, D., *see* Chang, H., 5 (1976) 380
- Dinar, A., Resource allocation for agricultural research 20 (1991) 145
- Dörfer, I.N.H., Science and technology in Sweden: the Fabians versus Europe 3 (1974/75) 134
- Dorfman, N., Route 128: The development of a regional high technology economy 12 (1983) 299
- Dosi, G., Technological paradigms and technological trajectories: A suggested interpretation of the determinants and directions of technical change 11 (1982) 147
- Dosi, G., *see* Arcangeli, F., 20 (1991) 515
- Dosi, G., Technological paradigms and technological trajectories 22 (1993) 102
- Douds, C.F., *see* Köhler, B.M., 2 (1973/74) 160
- Douds, C.F., *see* Rubenstein, A.H., 6 (1977) 324
- Dowling, M.J. and T.W. Ruefli, Technological innovation as a gateway to entry: The case of the telecommunications equipment industry 21 (1992) 63
- Doyle, C.J. and M.S. Ridout, The impact of scientific research on UK agricultural productivity 14 (1985) 109
- Drath, L., M. Gibbons and J. Ronayne, The European molecular biology organisation: a case-study of decision-making in science policy 4 (1975) 56
- Drath, P., M. Gibbons and R. Johnston, The super-computer project: a case study in the interaction of science, government and industry in the UK 6 (1977) 2
- Dunning, J.H., Multinational enterprises and the globalization of innovatory capacity 23 (1994) 67
- Durand, T., Dual technological trees: Assessing the intensity and strategic significance of technological change 21 (1992) 361
- Duysters, G. and J. Hagedoorn, Internationalization of corporate technology through strategic partnering: an empirical investigation 25 (1997) 1
- Duysters, G., *see* van Dijk, T., 27 (1998) 937
- Dvir, D., *see* Shenhar, A.J., 25 (1997) 607
- Dvir, D., S. Lipovetsky, A. Shenhar and A. Tishler, In search of project classification: a non-universal approach to project success factors 27 (1998) 915
- Eads, G., US Government support for civilian technology: economic theory versus political practice 3 (1974/75) 2
- Echevin, C., *see* Castagnos, J.C., 14 (1985) 345
- Edge, D., *see* Williams, R., 25 (1997) 865
- Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard, Reforming Romania's national research system 25 (1997) 107
- Elenkov, D., *see* Cusumano, M.A., 23 (1994) 195
- Elliott, S.R., *see* Brown, M.A., 24 (1995) 669
- Elzinga, A., Science policy in Sweden: Sectorization and adjustment to crisis 9 (1980) 116
- Engelen, B., *see* Van Dierdonck, R., 19 (1990) 551
- Engelsman, E.C. and A.F.J. Van Raan, A patent-based cartography of technology 23 (1994) 1
- Engerman, S.L., The big picture: how (and when and why) the West grew rich 23 (1994) 547
- Englisch, H. and H.J. Czerwon, Quantification of the performance of research units: A simple mathematical model 19 (1990) 477
- Ernst, H., Industrial research as a source of important patents 27 (1998) 1
- Esubiyi, A.O., *see* Oyelaran-Oyeyinka, B., 25 (1997) 1081
- Etemad, H., *see* Amesse, F., 20 (1991) 13
- Eto, H. and M. Fujita, Regularities in the growth of high technology industries in regions 18 (1989) 135
- Ettlie, J.E., The commercialization of federally sponsored technological innovations 11 (1982) 173
- Ettlie, J.E., Policy implications of the innovation process in the U.S. food sector 12 (1983) 239
- Etzkowitz, H., The norms of entrepreneurial science: cognitive effects of the new university-industry linkages 27 (1998) 823
- Etzkowitz, H. and S.N. Brisolla, Failure and success: the fate of industrial policy in Latin America and South East Asia 28 (1999) 337
- Evangelista, R., *see* Vivarelli, M., 25 (1997) 1013

- Evangelista, R., G. Perani, F. Rapiti and D. Archibugi, Nature and impact of innovation in manufacturing industry: some evidence from the Italian innovation survey 26 (1998) 521
- Evangelista, R., *see* Sirilli, G., 27 (1998) 881
- Extebarria, G., *see* Cooke, P., 26 (1998) 475
- Fagerberg, J., A technology gap approach to why growth rates differ 16 (1987) 87
- Fagerberg, J., A technology gap approach to why rates differ 22 (1993) 103
- Falk, C.E., An operational, policy-oriented research categorization scheme 2 (1973/74) 186
- Farina, C. and M. Gibbons, A quantitative analysis of the Science Research Council's policy of 'selectivity and concentration' 8 (1979) 306
- Farina, C. and M. Gibbons, The impact of the Science Research Council's policy of selectivity and concentration on average levels of research support: 1965-1974 10 (1981) 202
- Farina, C., *see* Chapman, I.D., 11 (1982) 15
- Farina, C., *see* Chapman, I.D., 12 (1983) 317
- Faulkner, W. and J. Senker, Making sense of diversity: public-private sector research linkage in three technologies 23 (1994) 673
- Faust, R.E., Assessing research output and momentum 3 (1974/75) 156
- Fawkes, S.D. and J.K. Jacques, Problems of adoption and adaptation of energy-conserving innovations in UK beverage and dairy industries 16 (1987) 1
- Feller, I., P. Madden, L. Kaltreider, D. Moore and L. Sims, The new agricultural research and technology transfer policy agenda 16 (1987) 315
- Feller, I., Universities as engines of R & D-based economic growth: They think they can 19 (1990) 335
- Feller, I., A. Glasmeier and M. Mark, Issues and perspectives on evaluating manufacturing modernization programs 25 (1997) 309
- Feller, I. and J.P. Nelson, The microeconomics of manufacturing modernization programs 28 (1999) 805
- Felsenstein, D. and R. Bar-El, Measuring the technological intensity of the industrial sector: A methodological and empirical approach 18 (1989) 239
- Fernández, M.T., *see* Gómez, I., 24 (1995) 459
- Fiebelkorn, N., *see* Peters, L., 27 (1998) 255
- Finkelstein, S.N. and D.L. Gilbert, Scientific evidence and the abandonment of medical technology: A study of eight drugs 14 (1985) 225
- Finnie, R., *see* Lavoie, M., 27 (1998) 143
- Fleck, J., Learning by trying: the implementation of configurational technology 23 (1994) 637
- Florida, R., *see* Kenney, M., 23 (1994) 305
- Florida, R., The globalization of R & D: Results of a survey of foreign affiliated R & D laboratories in the USA 26 (1998) 85
- Florida, R.L. and M. Kenney, Venture capital-financed innovation and technological change in the USA 17 (1988) 119
- Folkers, H., *see* Ahrens, H.J., 2 (1973/74) 94
- Fölster, S., The 'incentive subsidy' for government support of private R & D 17 (1988) 105
- Fölster, S., Do subsidies to cooperative R & D actually stimulate R & D investment and cooperation? 24 (1995) 403
- Fontes, M., *see* Laranja, M., 26 (1998) 1023
- Foray, D. and A. Grübler, Morphological analysis, diffusion and lock out of technologies: Ferrous casting in France and the FRG 19 (1990) 535
- Foray, D., The secrets of industry are in the air: Industrial cooperation and the organizational dynamics of the innovative firm 20 (1991) 393
- Foray, D., *see* Cowan, R., 24 (1995) 851
- Fortescue, S., Project planning in Soviet R & D 14 (1985) 267
- Fortier, Y., *see* Amesse, F., 20 (1991) 13
- Foss, K., Transaction costs and technological development: the case of the Danish fruit and vegetable industry 25 (1997) 531
- Frame, J.D. and F. Narin, The national self-preoccupation of American scientists: An empirical view 17 (1988) 203
- Frame, J.D., *see* Tong, X., 23 (1994) 133
- Franke, R., *see* Thomke, S., 27 (1998) 315
- Frankfort, J.G., *see* Moed, H.F., 14 (1985) 131
- Fransman, M., Promoting technological capability: An analysis in the capital goods sector: The case of Singapore 13 (1984) 33
- Fransman, M. and S. Tanaka, Government, globalisation and universities in Japanese biotechnology 24 (1995) 13
- Fredriksen, T., *see* Grønhaug, K., 13 (1984) 165
- Freeman, C., *see* Rothwell, R., 3 (1974/75) 258
- Freeman, C., Editorial introduction 16 (1987) 55
- Freeman, C., H. Krauch and K. Pavitt, Keichi Oshima 18 (1989) 253
- Freeman, C., Networks of innovators: A synthesis of research issues 20 (1991) 499

- Freeman, C., *see* Rothwell, R., 22 (1993) 110
- Frenkel, A., T. Reiss, S. Maital, K. Koschatzky and H. Grupp, Technometric evaluation and technology policy: the case of biondiagnostic kits in Israel 23 (1994) 281
- Frenken, K., P.P. Saviotti and M. Trommter, Variety and niche creation in aircraft, helicopters, motorcycles and microcomputers 28 (1999) 469
- Frischak, C.R., Learning and technical progress in the commuter aircraft industry: an analysis of Embraer's experience 23 (1994) 601
- Frost, M., *see* Robertson, A., 7 (1978) 292
- Frumau, C.C.F., Choices in R & D and business portfolio in the electronics industry: What the bibliometric data show 21 (1992) 97
- Fujita, M., *see* Eto, H., 18 (1989) 135
- Fukasaku, Y., Origins of Japanese industrial research: Pre-war government policy and in-house research at Mitsubishi Nagasaki Shipyard 21 (1992) 197
- Furtado, A., The French system of innovation in the oil industry: some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 25 (1997) 1243
- Gaffard, J.L., *see* Amendola, M., 23 (1994) 627
- Gaillard, J., *see* Eisemon, T.O., 25 (1997) 107
- Galai, D., *see* Toren, N., 7 (1978) 362
- Galende Del Canto, J. and I. Suárez González, A resource-based analysis of the factors determining a firm's R & D activities 28 (1999) 889
- Gallouf, F. and O. Weinstein, Innovation in services 26 (1998) 537
- Gambardella, A., Competitive advantages from in-house scientific research: The US pharmaceutical industry in the 1980s 21 (1992) 391
- Gambardella, A., *see* Arora, A., 23 (1994) 523
- Gambardella, A. and S. Torrisi, Does technological convergence imply convergence in markets? Evidence from the electronics industry 27 (1998) 445
- Gans, D.J., *see* Koenig, M.E.D., 4 (1975) 330
- Gardner, N.K., The appraisal and control of complex development projects 1 (1971/72) 122
- Garnsey, E., *see* Moore, I., 22 (1993) 507
- Garonne, P., *see* Colombo, M.G., 25 (1997) 923
- Garrette, B. and B. Quelin, An empirical study of hybrid forms of governance structure: the case of the telecommunication equipment industry 23 (1994) 395
- Garud, R., Cooperative and competitive behaviors during the process of creative destruction 23 (1994) 385
- Gassmann, O. and M. von Zedtwitz, New concepts and trends in international R & D organization 28 (1999) 231
- Gates, W., Federally supported commercial technology development: Solar thermal technologies 1970-1982 17 (1988) 27
- Gaudin, M.T., Public opinion on innovation in France 5 (1976) 106
- Gauthier, É., *see* Leydesdorff, L., 25 (1997) 431
- Gazis, D.C., Influence of technology on science: A comment on some experiences at IBM research 8 (1979) 244
- Gehriger, H., The ESTEC project control system 1 (1971/72) 274
- Gelb, E. and Y. Kislev, Farmers' financing of agricultural research in Israel 11 (1982) 321
- Gemünden, H.G. and P. Heydebreck, The influence of business strategies on technological network activities 24 (1995) 831
- Genus, A., Managing large-scale technology and inter-organized relations: the case of the Channel Tunnel 26 (1998) 169
- Georghiou, L., Global cooperation in research 27 (1998) 611
- Geroski, P.A., J. Van Reenen and C.F. Walters, How persistently do firms innovate? 26 (1998) 33
- Gerybadze, A. and G. Reger, Globalization of R & D: recent changes in the management of innovation in transnational corporations 28 (1999) 251
- Geschka, H., *see* Rubenstein, A.H., 6 (1977) 324
- Geuna, A., Determinants of university participation in EU-funded R & D cooperative projects 26 (1998) 677
- Gibbons, M. and R. Johnston, The roles of science in technological innovation 3 (1974/75) 220
- Gibbons, M., *see* Drath, L., 4 (1975) 56
- Gibbons, M., *see* Drath, P., 6 (1977) 2
- Gibbons, M., *see* Gummert, P., 7 (1978) 268
- Gibbons, M. and D. Littler, The development of an innovation: The case of Porvair 8 (1979) 2
- Gibbons, M., *see* Farina, C., 8 (1979) 306
- Gibbons, M., *see* Farina, C., 10 (1981) 202
- Gibbons, M., *see* Chapman, I.D., 11 (1982) 15
- Gibbons, M., R. Coombs, P. Saviotti and P.C. Stubbs, Innovation and technical change: A case study of the U.K. tractor industry 1957-1977 11 (1982) 289

- Gibbons, M. and R. Johnston, The roles of science in technological innovation 22 (1993) 103
- Gibson, H., *see* Padmore, T., 26 (1998) 605
- Gibson, H., *see* Padmore, T., 26 (1998) 625
- Gibson, S.G., *see* Moravcsik, M.J., 8 (1979) 26
- Gielow, G., *see* Meyer-Krahmer, F., 12 (1983) 153
- Gilbert, D.L., *see* Finkelstein, S.N., 14 (1985) 225
- Gimpl, M.L., Science policy in New Zealand 3 (1974/75) 124
- Ginarte, J.C. and W.G. Park, Determinants of patent rights: A cross-national study 26 (1998) 283
- Glasmeier, A., Technological discontinuities and flexible production networks: The case of Switzerland and the world watch industry 20 (1991) 469
- Glasmeier, A., *see* Feller, I., 25 (1997) 309
- Glick, R., R & D effort and US exports and foreign affiliate production of manufactures 11 (1982) 359
- Globerman, S., Technological diffusion in the Canadian carpet industry 4 (1975) 190
- Gluck, M.E., D. Blumenthal and M.A. Soto, University-industry relationships in the life sciences: Implications for students and post-doctoral fellows 16 (1987) 327
- Godin, B., Research and the practice of publication in industries 25 (1997) 587
- Godin, B., *see* Niosi, J., 28 (1999) 215
- Goel, R.K., *see* Brown, M.A., 20 (1991) 121
- Gold, B., What is the place of research and technological innovations in business planning? 2 (1973/74) 128
- Gold, B., Harnessing the capabilities of CIM: The critical role of senior management 18 (1989) 173
- Goldhor, R.S. and R.T. Lund, University-to-industry advanced technology transfer: A case study 12 (1983) 121
- Gomez Uranga, M., *see* Cooke, P., 26 (1998) 475
- Gómez, I., E. Sanz and A. Méndez, Utility of bibliometric analysis for research policy: A case study of Spanish research in Neuroscience 19 (1990) 457
- Gómez, I., M.T. Fernández, M.A. Zulueta and J. Camí, Analysis of biomedical research in Spain 24 (1995) 459
- Gonard, T., *see* Callon, M., 21 (1992) 215
- Goto, A., *see* Peck, M.J., 10 (1981) 222
- Gottinger, H.W., Estimating demand for SDI-related spin-off technologies 22 (1993) 73
- Grande, E. and A. Peschke, Transnational cooperation and policy networks in European science policy-making 28 (1999) 43
- Granstrand, O. and S. Sjölander, Managing innovation in multi-technology corporations 19 (1990) 35
- Granstrand, O., L. Håkanson and S. Sjölander, Internationalization of R & D - A survey of some recent research 22 (1993) 413
- Granstrand, O., Towards a theory of the technology-based firm 27 (1998) 465
- Granstrand, O., Internationalization of corporate R & D: a study of Japanese and Swedish corporations 28 (1999) 275
- Green, K., R. Hull, A. McMeekin and V. Walsh, The construction of the techno-economic: networks vs. paradigms 28 (1999) 775
- Greenwood, A., Response to Research Policy on article on MRCA 4 (1975) 207
- Greis, N.P., M.D. Dibner and A.S. Bean, External partnering as a response to innovation barriers and global competition in biotechnology 24 (1995) 609
- Gresser, K., Application of PPBS to R & D planning 2 (1973/74) 40
- Gresser, K., *see* Paschen, H., 2 (1973/74) 306
- Groenewegen, P., *see* Peters, L., 27 (1998) 255
- Grønhaug, K. and T. Fredriksen, Governmental innovation support in Norway: Micro- and macro-level effects 13 (1984) 165
- Grossfield, K., *see* Cannon, C.M., 8 (1979) 154
- Gruber, H., Trade policy and learning by doing: the case of semiconductors 25 (1997) 723
- Grübler, A., *see* Foray, D., 19 (1990) 535
- Grupp, H., The measurement of technical performance of innovations by technometrics and its impact on established technology indicators 23 (1994) 175
- Grupp, H., *see* Frenkel, A., 23 (1994) 281
- Grupp, H., *see* Noyons, E.C.M., 23 (1994) 443
- Grupp, H. and U. Schmoch, Patent statistics in the age of globalisation: new legal procedures, new analytical methods, new economic interpretation 28 (1999) 377
- Grupp, H., *see* Blind, K., 28 (1999) 451
- Guerard Jr., J.B., *see* Bean, A.S., 18 (1989) 193
- Guice, J., Designing the future: the culture of new trends in science and technology 28 (1999) 81
- Gummett, P. and M. Gibbons, Government research for industry: Recent British Developments 7 (1978) 268
- Gummett, P.J., *see* Aked, N.H., 5 (1976) 270
- Guy, K., *see* Quintas, P., 24 (1995) 325

- Haberer, J., *see* Anand, H.R., 7 (1978) 26
- Habermeier, K.F., Product use and product improvement 19 (1990) 271
- Hagedoorn, J. and J. Schakenraad, Leading companies and networks of strategic alliances in information technologies 21 (1992) 163
- Hagedoorn, J., Strategic technology partnering during the 1980s: trends, networks and corporate patterns in non-core technologies 24 (1995) 207
- Hagedoorn, J., *see* Duysters, G., 25 (1997) 1
- Hagedoorn, J. and J.B. Sedaitis, Partnerships in transition economies: international strategic technology alliances in Russia 27 (1998) 177
- Håkanson, L. and R. Nobel, Foreign research and developments in Swedish multinationals 22 (1993) 373
- Håkanson, L. and R. Nobel, Determinants of foreign R & D in Swedish multinationals 22 (1993) 397
- Håkanson, L., *see* Granstrand, O., 22 (1993) 413
- Hallaway, M.L., *see* Pardey, P.G., 18 (1989) 289
- Hallsworth, E.G., Research priorities and science policy objectives for the management of soils in arid lands 11 (1982) 373
- Ham, R.M. and D.C. Mowery, Improving the effectiveness of public-private R & D collaboration: case studies at a US weapons laboratory 26 (1998) 661
- Hamilton, K.S., *see* Narin, F., 26 (1998) 317
- Hansen, P.A. and G. Serin, Adaptability and product development in the Danish plastics industry 22 (1993) 181
- Harabi, N., Appropriability of technical innovations. An empirical analysis 24 (1995) 981
- Hare, P. and G. Wyatt, Modelling the determination of research output in British universities 17 (1988) 315
- Harhoff, D. and D. Moch, Price indexes for PC database software and the value of code compatibility 26 (1998) 509
- Harianto, F. and J.M. Pennings, Technological convergence and scope of organizational innovation 23 (1994) 293
- Harrison, B., *see* Storper, M., 20 (1991) 407
- Hartley, K., *see* Hutton, J., 14 (1985) 205
- Hartnell, G., The innovation of agrochemicals: regulation and patent protection 25 (1997) 379
- Hauptman, O., *see* Roberts, E.B., 15 (1986) 107
- Häusler, J., H.W. Hohn and S. Lütz, Contingencies of innovative networks: A case study of successful interfirm R & D collaboration 23 (1994) 47
- Haveman, R., The war on poverty and social science research 1965-1980 15 (1986) 53
- Haywood, B., *see* Bessant, J., 17 (1988) 349
- Healy, P., H. Rothman and P.K. Hoch, An experiment in science mapping for research planning 15 (1986) 233
- Hedemark, I. and M. Jul, Growth of an institute 6 (1977) 294
- Henderson, R., Of life cycles real and imaginary: The unexpectedly long old age of optical lithography 24 (1995) 631
- Henry, N., D. Massey and D. Wield, Along the road: R & D, society and space 24 (1995) 707
- Herbertz, H. and B. Müller-Hill, Quality and efficiency of basic research in molecular biology: a bibliometric analysis of thirteen excellent research institutes 24 (1995) 959
- Herzog, A.J., Career patterns of scientists in peripheral countries 12 (1983) 341
- Hesselink, F.Th., *see* Moed, H.F., 25 (1997) 819
- Heydebreck, P., *see* Gemünden, H.G., 24 (1995) 831
- Hicks, D., T. Ishizuka, P. Keen and S. Sweet, Japanese corporations, scientific research and globalization 23 (1994) 375
- Hicks, D.M., P.A. Isard and B.R. Martin, A morphology of Japanese and European corporate research networks 25 (1997) 359
- Hirasawa, R., *see* Tanaka, Y., 25 (1997) 999
- Hirsch, H., *see* Nowotny, H., 9 (1980) 278
- Hirsch, H., *see* Nowotny, H., 22 (1993) 108
- Hirsch, P.B., High-voltage electron microscopy in the UK 3 (1974/75) 78
- Hobday, M., Corporate strategy in the international semiconductor industry 18 (1989) 225
- Hobday, M., Product complexity, innovation and industrial organization 26 (1998) 689
- Hoch, P.K., *see* Healy, P., 15 (1986) 233
- Hoffmann, W.D., Market structure and strategies of R & D behavior in the data processing market - theoretical thoughts and empirical findings 5 (1976) 334
- Höglund, L. and O. Persson, Communication within a national R & D system: A study of iron and steel in Sweden 16 (1987) 29
- Hohn, H.W., *see* Häusler, J., 23 (1994) 47
- Holemans, B. and L. Sleuwaegen, Innovation expenditures and the role of government in Belgium 17 (1988) 375
- Hollenstein, H., A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing 25 (1997) 633
- Hollomon, J.H., *see* Allen, Th.J., 7 (1978) 124
- Holt, K., Information inputs to new product planning and development 7 (1978) 342
- Hope, K., *see* Bollinger, L., 12 (1983) 1

- Horesh, R., *see* Kamin, J.Y., 11 (1982) 83
- Horn, E.-J., Technological balance of payments and international competitiveness: The case of the Federal Republic of Germany 12 (1983) 91
- Horsley, A., *see* Rothwell, R., 3 (1974/75) 258
- Horsley, A., *see* Rothwell, R., 22 (1993) 110
- Horsmans, J.W., Innovation management for an industrial product 8 (1979) 274
- Houman Andersen, P., Organizing international technological collaboration in subcontractor relationships: an investigation of the knowledge-stickiness problem 28 (1999) 625
- Howells, J., The location and organisation of research and development: New horizons 19 (1990) 133
- Howells, J., Rethinking the market-technology relationship for innovation 25 (1997) 1209
- Howells, J.A., A socio-cognitive approach to innovation 24 (1995) 883
- Howells, J.R., Going global: the use of ICT networks in research and development 24 (1995) 169
- Hughes, K., The interpretation and measurement of R & D intensity - A note 17 (1988) 301
- Huh, K., *see* Scherer, F.M., 21 (1992) 507
- Hull, R., *see* Coombs, R., 27 (1998) 237
- Hull, R., *see* Green, K., 28 (1999) 775
- Hutcheson, P., A.W. Pearson and D.F. Ball, Sources of technical innovation in the network of companies providing chemical process plant and equipment 25 (1997) 25
- Hutton, J. and K. Hartley, The influence of health service procurement policy on research and development in the UK medical capital equipment industry 14 (1985) 205
- Hyman, D.B., *see* Allen, T.J., 12 (1983) 199
- Iammarino, S., *see* Archibugi, D., 28 (1999) 317
- Iansiti, M., Technology integration: Managing technological evolution in a complex environment 24 (1995) 521
- Iansiti, M., From technological potential to product performance: an empirical analysis 26 (1998) 345
- Ily-Renko, H., *see* Autio, E., 26 (1998) 973
- Inhaber, H., Scientific cities 3 (1974/75) 182
- Inhaber, H., Changes in centralization of science 6 (1977) 178
- Inhaber, H., The leading edge of science in Canada 7 (1978) 88
- Ionescu-Sisesti, I., *see* Eisemon, T.O., 25 (1997) 107
- Irvine, J., *see* Martin, B.R., 12 (1983) 61
- Irvine, J., *see* Martin, B.R., 13 (1984) 183
- Irvine, J. and B.R. Martin, CERN: Past performance and future prospects II. The scientific performance of the CERN accelerators 13 (1984) 247
- Irvine, J., *see* Martin, B.R., 13 (1984) 311
- Irvine, J., B.R. Martin, J. Abraham and T. Peacock, Assessing basic research: Reappraisal and update of an evaluation of four radio astronomy observatories 16 (1987) 213
- Irvine, J., *see* Martin, B.R., 22 (1993) 106
- Isard, P.A., *see* Hicks, D.M., 25 (1997) 359
- Ishizuka, T., *see* Hicks, D., 23 (1994) 375
- Islas, J., Getting round the lock-in in electricity generating systems: the example of the gas turbine 26 (1998) 49
- Israeli, A., *see* Zif, J., 19 (1990) 435
- Iwata, H., *see* Odagiri, H., 15 (1986) 13
- Jacobsson, S., *see* Carlsson, B., 23 (1994) 235
- Jacobs, D., Innovation policies within the framework of internationalization 27 (1998) 711
- Jacobsson, S., Government policy and performance of the Indian engineering industry 20 (1991) 45
- Jacobsson, S. and C. Oskarsson, Educational statistics as an indicator of technological activity 24 (1995) 127
- Jacobsson, S., C. Oskarsson and J. Philipson, Indicators of technological activities - comparing educational, patent and R & D statistics in the case of Sweden 25 (1997) 573
- Jacques, J.K., *see* Fawkes, S.D., 16 (1987) 1
- Jacques, J.M., *see* Bughin, J., 23 (1994) 653
- Jaffe, A.B., Characterizing the 'technological position' of firms, with application to quantifying technological opportunity and research spillovers 18 (1989) 87
- Jakes, P.J., Research evaluation in the U.S. Forest Service: Opinions of research managers 17 (1988) 283
- Jankowski Jr., J.E., Do we need a price index for industrial R & D? 22 (1993) 195
- Janne, O., *see* Cantwell, J., 28 (1999) 119

- Jansen, D., National research systems and change: the reaction of the British and German research system to the discovery of High-Tc Superconductors 23 (1994) 357
- Janszen, F.H.A. and G.H. Degenars, A dynamic analysis of the relations between the structure and the process of National Systems of Innovation using computer simulation; the case of the Dutch biotechnological sector 27 (1998) 37
- Jasanoff, S., Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 14 (1985) 23
- Jasanoff, S., Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 22 (1993) 104
- Jervis, P., Innovation in electron-optical instruments – two British case histories 1 (1971/72) 174
- Jervis, V.T.P., *see* Rothwell, R., 3 (1974/75) 258
- Jervis, V.T.P., *see* Rothwell, R., 22 (1993) 110
- Jimenez-Martinez, J. and Y. Polo-Redondo, International diffusion of a new tool: the case Electronic Data Interchange (EDI) in the retailing sector 26 (1998) 811
- Johnes, G., Determinants of research output in economics departments in British universities 17 (1988) 171
- Johnson, J., *see* Baldwin, J.R., 25 (1997) 785
- Johnson, P.S., The role of co-operative research in British industry 1 (1971/72) 332
- Johnston, R., *see* Gibbons, M., 3 (1974/75) 220
- Johnston, R., *see* Drath, P., 6 (1977) 2
- Johnston, R., *see* Gibbons, M., 22 (1993) 103
- Joly, P.B. and V. Mangematin, Profile of public laboratories, industrial partnerships and organisation of R & D: the dynamics of industrial relationships in a large research organisation 25 (1997) 901
- Joly, P.B. and M.A. de Looze, An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 25 (1997) 1027
- Jones, P.G., *see* Pachico, D., 16 (1987) 279
- Jones, P.M.S., Lessons from the objective appraisal of programmes at the national level – implications of criteria and policy 1 (1971/72) 10
- Jones, P.M.S. and A.L. Willett, Evaluation of the benefits of laboratory research and information services 6 (1977) 152
- Joshi, N., Technological choice and socio-economic imperative: a case study of textile technologies in India 6 (1977) 202
- Joshi, S.S., J.V. Rajan and S.K. Subramanian, The Indian patent system and indigenous R & D 3 (1974/75) 292
- Jul, M., *see* Hedemark, I., 6 (1977) 294
- Justman, M. and M. Teubal, Innovation policy in an open economy: A normative framework for strategic and tactical issues 15 (1986) 121
- Justman, M. and M. Teubal, Technological infrastructure policy (TIP): creating capabilities and building markets 24 (1995) 259
- Kabla, I., *see* Arundel, A., 27 (1998) 127
- Kaltreider, L., *see* Feller, I., 16 (1987) 315
- Kamath, R.R., *see* Liker, J.K., 25 (1997) 59
- Kamin, J.Y., I. Bijaoui and R. Horesh, Some determinants of cost distribution in the process of technological innovations 11 (1982) 83
- Karst, I., *see* Ahrens, H.J., 2 (1973/74) 94
- Kash, D.E., *see* Rycroft, R.W., 23 (1994) 613
- Katrak, H., Economic analyses of Industrial Research Institutes in developing countries: the Indian experience 27 (1998) 337
- Katz, J.S. and B.R. Martin, What is research collaboration? 26 (1998) 1
- Katz, J.S., The self-similar science system 28 (1999) 501
- Kauko, K., Effectiveness of R & D subsidies – a sceptical note on the empirical literature 25 (1997) 321
- Kawase, T., *see* Rubenstein, A.H., 6 (1977) 324
- Kay, N.M., Corporate decision-making for allocations to research and development 8 (1979) 46
- Kealey, T., Why science is endogenous: a debate with Paul David (and Ben Martin, Paul Romer, Chris Freeman, Luc Soete and Keith Pavitt) 26 (1998) 897
- Keating, P., *see* Mackenzie, M., 17 (1988) 155
- Keck, O., West German science policy since the early 1960s: trends and objectives 5 (1976) 116
- Keck, O., Government policy and technical choice in the West German reactor programme 9 (1980) 302
- Keck, O., A theory of white elephants: Asymmetric information in government support for technology 17 (1988) 187
- Keck, O., Government policy and technical choice in the West German Reactor Program 22 (1993) 104
- Keen, P., *see* Hicks, D., 23 (1994) 375
- Kelley, M.R. and A. Arora, The role of institution-building in US industrial modernization programs 25 (1997) 265
- Kemp, R., *see* van den Ende, J., 28 (1999) 831

- Kenney, M., Schumpeterian innovation and entrepreneurs in capitalism: A case study of the U.S. biotechnology industry 15 (1986) 21
- Kenney, M., *see* Florida, R.L.
- Kenney, M. and R. Florida, The organization and geography of Japanese R & D: results from a survey of Japanese electronics and biotechnology firms 23 (1994) 305
- Khanna, T., Racing behavior. Technological evolution in the high-end computer industry 24 (1995) 933
- Khazam, J. and D.C. Mowery, The commercialization of RISC: Strategies for the creation of dominant designs 23 (1994) 89
- Kim, D.J., *see* Kogut, B., 24 (1995) 77
- Kim, L., Stages of development of industrial technology in a developing country: a model 9 (1980) 254
- Kim, L. and C.J. Dahlman, Technology policy for industrialization: An integrative framework and Korea's experience 21 (1992) 437
- Kimura, K., *see* Thomas, S.M., 24 (1995) 645
- Kingsley, G., B. Bozeman and K. Coker, Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation 25 (1997) 967
- Kingston, W., Compulsory licensing with capital payments as an alternative to grants of monopoly in intellectual property 23 (1994) 661
- Kislev, Y., *see* Gelb, E., 11 (1982) 321
- Kitti, C., *see* Schiffel, D., 7 (1978) 324
- Klaes, M., Socio-technical constituencies, games theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music 25 (1997) 1221
- Kleinknecht, A. and B. Verspagen, Demand and innovation: Schmookler re-examined 19 (1990) 387
- Kleinknecht, A. and J.O.N. Reijnen, More evidence on the undercounting of small firm R & D 20 (1991) 579
- Kleinknecht, A. and J.O.N. Reijnen, Why do firms cooperate on R & D? An empirical study 21 (1992) 347
- Kleinknecht, A., *see* Brouwer, E., 25 (1997) 1235
- Kleinknecht, A., *see* Brouwer, E., 28 (1999) 615
- Klevorick, A.K., R.C. Levin, R.R. Nelson and S.G. Winter, On the sources and significance of interindustry differences in technological opportunities 24 (1995) 185
- Klose, A., Comment on 'Science and technology in the European communities: the history of the COST projects' 5 (1976) 295
- Kobayashi, M., *see* Sakakura, S., 20 (1991) 531
- Koch, C., A dying debate 2 (1973/74) 88
- Koenig, M.E.D. and D.J. Gans, The productivity of research effort in the US pharmaceutical industry: a statistical approach 4 (1975) 330
- Koenig, M.E.D., A bibliometric analysis of pharmaceutical research 12 (1983) 15
- Kogut, B., G. Walker and D.J. Kim, Cooperation and entry induction as an extension of technological rivalry 24 (1995) 77
- Köhler, B.M., A.H. Rubenstein and C.F. Douds, A behavioural study of international technology transfer between the United States and West Germany 2 (1973/74) 160
- Kondo, M., R & D dynamics of creating patents in the Japanese industry 28 (1999) 587
- Kontorovich, V., The future of Soviet science 23 (1994) 113
- Korevaar, J.C., *see* Tijssen, R.J.W., 25 (1997) 1277
- Kortum, S. and J. Lerner, What is behind the recent surge in patenting? 28 (1999) 1
- Koschatzky, K., *see* Frenkel, A., 23 (1994) 281
- Koski, H., The implications of network use, production network externalities and public networking programmes for firm's productivity 28 (1999) 423
- Kostoff, R.N., Research requirements for research impact assessment 24 (1995) 869
- Krauch, H., Priorities for research and technological development 1 (1971/72) 28
- Krauch, H., *see* Ahrens, H.J., 2 (1973/74) 94
- Krauch, H., *see* Freeman, C., 18 (1989) 253
- Krohn, W., *see* van den Daele, W., 27 (1998) 853
- Kruse, H.G., *see* Ahrens, H.J., 2 (1973/74) 94
- Kuemmerle, W., Optimal scale for research and development in foreign environments - an investigation into size and performance of research and development laboratories abroad 27 (1998) 111
- Kuemmerle, W., Foreign direct investment in industrial research in the pharmaceutical and electronics industries - results from a survey of multinational firms 28 (1999) 179
- Kumar, N. and M. Saqib, Firm size, opportunities for adaptation and in-house R & D activity in developing countries: the case of Indian manufacturing 25 (1997) 713
- Kumaresan, N. and K. Miyazaki, An integrated network approach to systems of innovation - the case of robotics in Japan 28 (1999) 563
- Kuntze, U., *see* Meyer-Krahmer, F., 12 (1983) 153

- Lachke, A.H., J.V. Rajan, M.C. Srinivasan and S.A. Tambe, Biotechnology development in India: Some policy issues 17 (1988) 235
- Lacroix, R. and F. Martin, Government and the decentralization of R & D 17 (1988) 363
- Laditan, G.O.A., *see* Oyelaran-Oyeyinka, B., 25 (1997) 1081
- Laestadius, S., The relevance of science and technology indicators: the case of pulp and paper 27 (1998) 385
- Lall, S., Developing countries as exporters of industrial technology 9 (1980) 24
- Lallich, S., *see* Bergeron, S., 26 (1998) 733
- Lambright, W.H., NASA, ozone, and policy-relevant science 24 (1995) 747
- Lamson, R.W., Science policy-needed research (as note) 1 (1971/72) 386
- Lancaster, G.A. and M. White, The diffusion and adoption of textile chemicals and dyestuffs within the UK textile industry 6 (1977) 358
- Landau, R., Economic growth and the chemical industry 23 (1994) 583
- Landefeld, J.S., *see* Vehorn, C.L., 11 (1982) 3
- Landry, R. and N. Amara, The impact of transaction costs on the institutional structuration of collaborative academic research 27 (1998) 901
- Langlois, R.N. and P.L. Robertson, Networks and innovation in a modular system: Lessons from the microcomputer and stereo component industries 21 (1992) 297
- Langlois, R.N., *see* Robertson, P.L., 24 (1995) 543
- Langlois, R.N., *see* Mowery, D.C., 25 (1997) 947
- Langowitz, N.S., An exploration of production problems in the initial commercial manufacture of products 17 (1988) 43
- Langrish, J., Innovation in pharmaceuticals 1 (1971/72) 89
- Langrish, J., *see* Alam, G., 13 (1984) 55
- Lanjouw, J.O. and A. Mody, Innovation and the international diffusion of environmentally responsive technology 25 (1997) 549
- Laranja, M. and M. Fontes, Creative adaptation: the role of new technology based firms in Portugal 26 (1998) 1023
- Laredo, P., *see* Callon, M., 21 (1992) 215
- Larédo, P., The networks promoted by the framework programme and the questions they raise about its formulation and implementation 27 (1998) 589
- Laursen, K., Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 25 (1997) 1121
- Laville, F., *see* Zitt, M., 28 (1999) 545
- Lavoie, M. and R. Finnie, The occupational dynamics of recent Canadian engineering graduates inside and outside the bounds of technology 27 (1998) 143
- Lawton Smith, H., K. Dickson and S.L. Smith, There are two sides to every story: Innovation and collaboration within networks of large and small firms 20 (1991) 457
- Le Bas, C., *see* Bergeron, S., 26 (1998) 733
- Leach, B., Decision-making in big science - the development of the high-voltage electron microscope 2 (1973/74) 56
- Lee, J. and A.H. Rubenstein, An analysis of factors influencing the utilization of contract research in a developing country, Korea 9 (1980) 174
- Lee, J., Small firms' innovation in two technological settings 24 (1995) 391
- Lee, J.Y., *see* Mansfield, E., 25 (1997) 1047
- Lee, K.R., The role of user firms in the innovation of machine tools: The Japanese case 25 (1997) 491
- Lee, M., B. Son and K. Om, Evaluation of national R & D projects in Korea 25 (1997) 805
- Lee, Y.S., 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration 25 (1997) 843
- Lenfant, C.J.M., *see* Robinson, D.M., 14 (1985) 189
- Leonard-Barton, D., Interpersonal communication patterns among Swedish and Boston-area entrepreneurs 13 (1984) 101
- Leonard-Barton, D., Implementation as mutual adaptation of technology and organization 17 (1988) 251
- Leoncini, R., M.A. Maggioni and S. Montresor, Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 25 (1997) 415
- Leoncini, R., The nature of long-run technological change: innovation, evolution and technological systems 27 (1998) 75
- Leray, T., *see* Callon, M., 21 (1992) 215
- Lerner, J., *see* Kortum, S., 28 (1999) 1
- Levin, R.C., *see* Klevorick, A.K., 24 (1995) 185
- Leydesdorff, L. and S. Zeldenrust, Technological change and trade unions 13 (1984) 153
- Leydesdorff, L., Words and co-words as indicators of intellectual organization 18 (1989) 209
- Leydesdorff, L., S. Cozzens and P. Van den Besselaar, Tracking areas of strategic importance using scientometric journal mappings 23 (1994) 217
- Leydesdorff, L. and É. Gauthier, The evaluation of national performance in selected priority areas using scientometric methods 25 (1997) 431

- Licht, G. and E. Nerlinger, New technology-based firms in Germany: a survey of the recent evidence 26 (1998) 1005
- Lichtenberg, F.R., Energy prices and induced innovation 15 (1986) 67
- Lichtenberg, F.R., Issues on measuring industrial R & D 19 (1990) 157
- Liebenau, J., Innovation in pharmaceuticals: Industrial R & D in the early twentieth century 14 (1985) 179
- Liker, J.K., R.R. Kamath, S. Nazli Wasti and N. Nagamachi, Supplier involvement in automotive component design: are there really large US Japan differences? 25 (1997) 59
- Link, A.N., *see* Bozeman, B., 13 (1984) 21
- Link, A.N., On the classification of industrial R & D 25 (1997) 397
- Linsu-Kim, Stages of development of industrial technology in a developing country: A model 22 (1993) 105
- Lipovetsky, S., *see* Dvir, D., 27 (1998) 915
- Little, B., *see* McGuinness, N.W., 10 (1981) 78
- Littler, D., *see* Gibbons, M., 8 (1979) 2
- Liu, X., *see* White, S., 27 (1998) 369
- Long, T.D., Japanese technology policy: achievements and perspectives 4 (1975) 2
- Lott, J., *see* Murray, G.C., 24 (1995) 283
- Løvland, P., Discussion on principles of organizing applied research and development 2 (1973/74) 322
- Lübbe, H., Some characteristic aspects of science policy in the Federal Republic of Germany 3 (1974/75) 172
- Lund, R.T., *see* Goldhor, R.S., 12 (1983) 121
- Luria, D. and E. Wiarda, Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 25 (1997) 233
- Lütz, S., *see* Häusler, J., 23 (1994) 47
- Luukkonen, T. and B. Stähle, Quality evaluations in the management of basic and applied research 19 (1990) 357
- Luukkonen, T., The impacts of research field evaluations on research practice 24 (1995) 349
- Luukkonen, T., The difficulties in assessing the impact of EU framework programmes 27 (1998) 599
- Luwel, M., *see* Noyons, E.C.M., 27 (1998) 285
- Lynam, J.K., *see* Pachico, D., 16 (1987) 279
- Lynn, L.H., *see* Aram, J.D., 21 (1992) 409
- Lynn, L.H., N.M. Reddy and J.D. Aram, Linking technology and institutions: the innovation community framework 25 (1997) 91
- Lyons, W.S., *see* Ross, H.H., 8 (1979) 260
- Macdonald, S., The distinctive research of the individual inventor 15 (1986) 199
- Macdonald, S., Theoretically sound: practically useless? Government grants for industrial R & D in Australia 15 (1986) 269
- Macdonald, S. and C. Williams, The survival of the gatekeeper 23 (1994) 123
- Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo, The role of information in licensing contract design 25 (1997) 43
- Macioti, M., Science and technology in the Common Market: a progress report 4 (1975) 290
- Macioti, M., The power and the glory: A note on patents and scientific authors 9 (1980) 104
- Mackenzie, M., A. Cambrosio and P. Keating, The commercial application of a scientific discovery: The case of the hybridoma technique 17 (1988) 155
- Madden, P., *see* Feller, I., 16 (1987) 315
- Madeuf, B., International technology transfers and international technology payments: Definitions, measurement and firms' behaviour 13 (1984) 125
- Madeuf, B., *see* Delapierre, M., 26 (1998) 989
- Maggioni, M.A., *see* Leoncini, R., 25 (1997) 415
- Maidigue, M.A. and B.J. Zirger, The new product learning cycle 14 (1985) 299
- Maital, S., *see* Frenkel, A., 23 (1994) 281
- Majumdar, S.K., Does new technology adoption pay? Electronic switching patterns and firm-level performance in US telecommunications 24 (1995) 803
- Majumdar, S.K. and S. Venkataraman, New technology adoption in US telecommunications: The role of competitive pressures and firm-level inducements 22 (1993) 521
- Malecki, E.J., Dimensions of R & D location in the United States 9 (1980) 2
- Malecki, E.J., Science, technology, and regional economic development: Review and prospects 10 (1981) 312
- Malerba, F., Demand structure and technological change: The case of the European semiconductor industry 14 (1985) 283
- Malerba, F. and L. Orsenigo, Schumpeterian patterns of innovation are technology-specific 25 (1997) 451
- Malerba, F. and L. Orsenigo, Technological entry, exit and survival: an empirical analysis of patent data 28 (1999) 643
- Mangematin, V. and M. Callon, Technological competition, strategies of the firms and the choice of the first users: the case of road guidance technologies 24 (1995) 441
- Mangematin, V., *see* Joly, P.B., 25 (1997) 901

- Mansell, R., Rethinking the telecommunication infrastructure. The new 'black box' 19 (1990) 501
- Mansfield, E., A. Romeo and L. Switzer, R & D price indexes and real R & D expenditures in the United States 12 (1983) 105
- Mansfield, E. and L. Switzer, The effects of R & D tax credits and allowances in Canada 14 (1985) 97
- Mansfield, E., The diffusion of industrial robots in Japan and the United States 18 (1989) 183
- Mansfield, E., Academic research and industrial innovation 20 (1991) 1
- Mansfield, E., Academic research and industrial innovation: A further note 21 (1992) 295
- Mansfield, E., The diffusion of industrial robots in Japan and the United States 22 (1993) 105
- Mansfield, E. and J.Y. Lee, The modern university: contributor to industrial innovation and recipient of industrial R & D support 25 (1997) 1047
- Mansfield, E., Academic research and industrial innovation: An update of empirical findings 26 (1998) 773
- Marcum, J., Introductory note 16 (1987) 57
- Mariotti, S., *see* Cainarca, C.C., 18 (1989) 59
- Mariotti, S., *see* Cainarca, G.C., 21 (1992) 45
- Mariotti, S., *see* Buzzacchi, L., 24 (1995) 151
- Mark, M., *see* Feller, I., 25 (1997) 309
- Marriott, R., *see* Murray, G.C., 27 (1998) 947
- Marstrand, P.K., *see* Smart, C.C., 1 (1971/72) 364
- Marstrand, P.K., Production of microbial protein: A study of the development and introduction of a new technology 10 (1981) 148
- Martin, B.R. and J. Irvine, Assessing basic research: Some partial indicators of scientific progress in radio astronomy 12 (1983) 61
- Martin, B.R. and J. Irvine, CERN: Past performance and future prospects I. CERN's position in world high-energy physics 13 (1984) 183
- Martin, B.R., *see* Irvine, J., 13 (1984) 247
- Martin, B.R. and J. Irvine, CERN: Past performance and future prospects III. CERN and the future of world high-energy physics 13 (1984) 311
- Martin, B.R., *see* Irvine, J., 16 (1987) 213
- Martin, B.R. and J. Irvine, Assessing basic research 22 (1993) 106
- Martin, B.R., *see* Hicks, D.M., 25 (1997) 359
- Martin, B.R., *see* Katz, J.S., 26 (1998) 1
- Martin, F., *see* Lacroix, R., 17 (1988) 363
- Martin, F., The economic impact of Canadian university R & D 27 (1998) 677
- Martin, X. and W. Mitchell, The influence of local search and performance heuristics on new design introduction in a new product market 26 (1998) 753
- Martinez-Giralt, X., *see* Macho-Stadler, I., 25 (1997) 43
- Massey, D., *see* Henry, N., 24 (1995) 707
- Mayntz, R. and U. Schimank, Linking Theory and Practice: Introduction 27 (1998) 747
- Mayntz, R., Socialist academies of sciences: the enforced orientation of basic research at user needs 27 (1998) 781
- Mazzoleni, R., Learning and path-dependence in the diffusion of innovations: comparative evidence on numerically controlled machine tools 26 (1998) 405
- Mazzoleni, R. and R.R. Nelson, The benefits and costs of strong patent protection: a contribution to the current debate 27 (1998) 273
- McAllister, P., *see* Albert, M.B., 20 (1991) 251
- McCarthy, D., *see* Zif, J., 19 (1990) 435
- McCutchen Jr., W.W., Estimating the impact of R & D tax credit on strategic groups in the pharmaceutical industry 22 (1993) 337
- McCutcheon, R., Technical change and social need: the case of high-rise flats 4 (1975) 262
- McGuinness, N.W. and B. Little, The impact of R & D spending on the foreign sales of new Canadian industrial products 10 (1981) 78
- McKendrick, D., Sources of imitation: improving bank process capabilities 24 (1995) 783
- McKeon, R. and J.A. Ryan, Evaluations of innovation programs in selected European countries 18 (1989) 379
- McMeekin, A., *see* Green, K., 28 (1999) 775
- McQueen, D.H., *see* Wallmark, J.T., 20 (1991) 325
- McQueen, D.H., Distribution of growth rates in highly successful Swedish technical innovations 23 (1994) 713
- Melzer, A., An educational TV satellite for India: a critical assessment 5 (1976) 158
- Méndez, A., *see* Gómez, I., 19 (1990) 457
- Mensch, G., A new push of basic innovations? 7 (1978) 108
- Mercado, A., *see* Pirela, A., 22 (1993) 431
- Metcalfe, J.S., *see* Saviotti, P.P., 13 (1984) 141
- Méthé, D.T., The influence of technology and demand factors on firm size and industrial structure in the DRAM market 1973-1988 21 (1992) 13

- Meyer-Krahmer, F., The present status and problems of impact research in technology policy: A case study on the federal program for funding research and development personnel in Germany 10 (1981) 356
- Meyer-Krahmer, F., G. Gielow and U. Kuntze, Impacts of government incentives towards industrial innovation: An analysis of the federal programme funding R & D personnel in the Federal Republic of Germany 12 (1983) 153
- Meyer-Krahmer, F., Recent results in measuring innovation output 13 (1984) 175
- Meyer-Krahmer, F. and P. Montigny, Evaluations of innovation programs in selected European countries 18 (1989) 313
- Meyer-Krahmer, F., The German R & D system in transition: Empirical results and prospects of future development 21 (1992) 423
- Meyer-Krahmer, F. and P. Montigny, Evaluations of innovation programs in selected European countries 22 (1993) 106
- Meyer-Krahmer, F. and U. Schmoch, Science-based technologies: university-industry interactions in four fields 27 (1998) 835
- Meyer-Krahmer, F. and G. Rege, New perspectives on the innovation strategies of multinational enterprises: lessons for technology policy in Europe 28 (1999) 749
- Meyer, M., *see* Utterback, J.M., 17 (1988) 15
- Meyer, M., *see* Utterback, J.M., 22 (1993) 113
- Meyers, P.W., Non-linear learning in large technological firms: Period four implies chaos 19 (1990) 97
- Mian, S.A., Assessing value-added contributions of university technology business incubators to tenant firms 25 (1997) 325
- Michelet, B., *see* Turner, W.A., 19 (1990) 467
- Midgley, D., P.D. Morrison and J.H. Roberts, The effect of network structure in industrial diffusion processes 21 (1992) 533
- Miller, J.P., *see* Rubenstein, A.H., 6 (1977) 324
- Miller, R., Global R & D networks and large-scale innovations: The case of the automobile industry 23 (1994) 27
- Milliken, J.G., *see* Robbins, M.D., 6 (1977) 214
- Milliken, J.G., *see* Robbins, M.D., 6 (1977) 252
- Mitchell, W., Using academic technology: Transfer methods and licensing incidence in the commercialization of American diagnostics imaging equipment research, 1954-1988 20 (1991) 203
- Mitchell, W., *see* Martin, X., 26 (1998) 753
- Miyazaki, K., *see* Kumaresan, N., 28 (1999) 563
- Mizuta, Y., *see* Baba, Y., 24 (1995) 473
- Moch, D., *see* Harhoff, D., 26 (1998) 509
- Mody, A., *see* Lanjouw, J.O., 25 (1997) 549
- Moed, H.F., W.J.M. Burger, J.G. Frankfort and A.F.J. van Raan, The use of bibliometric data for the measurement of university research 14 (1985) 131
- Moed, H.F., *see* Van Vianen, B.G., 19 (1990) 61
- Moed, H.F. and F.Th. Hesselink, The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications. 25 (1997) 819
- Moed, H.F., *see* Noyons, E.C.M., 27 (1998) 285
- Mogee, M.E., *see* Bean, A.S., 4 (1975) 380
- Moggi, M., *see* Arcangeli, F., 20 (1991) 515
- Mokyr, J., Cardwell's Law and the political economy of technological progress 23 (1994) 561
- Molas-Gallart, J., Which way to go? Defence technology and the diversity of 'dual-use' technology transfer 26 (1998) 367
- Molero, J., Foreign technology in the Spanish economy: An analysis of the recent evolution 12 (1983) 269
- Molero, J. and M. Buesa, Multinational companies and technological change: Basic traits and taxonomy of the behavior of German industrial companies in Spain 22 (1993) 265
- Molero, J. and M. Buesa, Patterns of technological change among Spanish innovative firms: the case of the Madrid region 25 (1997) 647
- Molero, J., Patterns of internationalization of Spanish innovative firms 27 (1998) 541
- Molina, A.H., Transputers and transputer-based parallel computers: Sociotechnical constituencies and the build-up of British-European capabilities in information technologies 19 (1990) 309
- Molina, A.H., In search of insights into the generation of techno-economic trends: Micro- and macro-constituencies in the microprocessor industry. 22 (1993) 479
- Montigny, P., *see* Meyer-Krahmer, F., 18 (1989) 313
- Montresor, S., *see* Leoncini, R., 25 (1997) 415
- Moore, D., *see* Feller, I., 16 (1987) 315
- Moore, I. and E. Garnsey, Funding for innovation in small firms: The role of government 22 (1993) 507
- Moravcsik, M.J., Measures of scientific growth 2 (1973/74) 266
- Moravcsik, M.J., A refinement of extrinsic criteria for scientific choice 3 (1974/75) 88
- Moravcsik, M.J., Phenomenology and models of the growth of science 4 (1975) 80
- Moravcsik, M.J., The crisis in particle physics 6 (1977) 78
- Moravcsik, M.J. and S.G. Gibson, The dynamics of scientific manpower and output 8 (1979) 26

- Moravcsik, M.J., The role of science in technology transfer 12 (1983) 287
- Moravcsik, M.J., Two perceptions of science development 15 (1986) 1
- Moravcsik, M.J., The limits of science and the scientific method 17 (1988) 293
- Morrison, P.D., *see* Midgley, D., 21 (1992) 533
- Morrison, R.W. and E.F. Wonder, Canada-India nuclear cooperation: A rebuttal 8 (1979) 187
- Moscowitz, J., *see* Robinson, D.M., 14 (1985) 189
- Moss, S., Investment and innovation over the long wave 15 (1986) 211
- Motigny, P., *see* Meyer-Krahmer, F., 22 (1993) 106
- Mowery, D.C. and N. Rosenberg, The influence of market demand upon innovation: A critical review of some recent empirical studies 8 (1979) 102
- Mowery, D.C., Innovation, market structure and government policy in the American semiconductor industry: A survey 12 (1983) 183
- Mowery, D.C., Collaborative ventures between U.S. and foreign manufacturing firms 18 (1989) 19
- Mowery, D.C., The U.S. national innovation system: Origins and prospects for change 21 (1992) 125
- Mowery, D.C. and N. Rosenberg, The influence of market demand upon innovation: A critical review of some recent empirical studies 22 (1993) 107
- Mowery, D.C., *see* Khazam, J., 23 (1994) 89
- Mowery, D.C. and R.N. Langlois, Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 25 (1997) 947
- Mowery, D.C., *see* Ham, R.M., 26 (1998) 661
- Mowery, D.C., J.E. Oxley and B.S. Silverman, Technological overlap and interfirm cooperation: implications for the resource-based view of the firm 27 (1998) 507
- Mowery, D.C., The changing structure of the US national innovation system: implications for international conflict and cooperation in R & D policy 27 (1998) 639
- Mueller, R.A.E., *see* Pray, C.E., 20 (1991) 315
- Mukerji, S., *see* Bindon, G., 7 (1978) 220
- Mukerji, S., *see* Bindon, G., 8 (1979) 191
- Müller-Hill, B., *see* Herbertz, H., 24 (1995) 959
- Müller, J., Policy options for government funding of advanced technology – the case of international collaboration in the European Telecommunication Satellite Programme 18 (1989) 33
- Müller, K. and R. Nejedly, The regional distribution of research and development (as note) 1 (1971/72) 320
- Müller, W., *see* Schott, B., 4 (1975) 88
- Murakami, N., *see* Odagiri, H., 21 (1992) 335
- Murray, G.C. and J. Lott, Have UK venture capitalists a bias against investment in new technology-based firms? 24 (1995) 283
- Murray, G.C. and R. Marriott, Why has the investment performance of technology-specialist, European venture capital funds been so poor? 27 (1998) 947
- Mutinelli, M. and L. Piscitello, The entry mode choice of MNEs: an evolutionary approach 27 (1998) 491
- Myers, G., Conflicting perceptions of plans for an academic center 20 (1991) 217
- Nagamachi, N., *see* Liker, J.K., 25 (1997) 59
- Nakamura, Y., *see* Odagiri, H., 26 (1998) 191
- Napolitano, G., Industrial research and sources of innovation: A cross-industry analysis of Italian manufacturing firms 20 (1991) 171
- Napolitano, G., *see* De Marchi, M., 25 (1997) 13
- Narandren, P., *see* Coombs, R., 25 (1997) 403
- Narayanan, K., Technology acquisition, de-regulation and competitiveness: a study of Indian automobile industry 27 (1998) 215
- Narin, F., E. Noma and R. Perry, Patents as indicators of corporate technological strength 16 (1987) 143
- Narin, F. and R.P. Rozek, Bibliometric analysis of U.S. Pharmaceutical industry research performance 17 (1988) 139
- Narin, F., *see* Frame, J.D., 17 (1988) 203
- Narin, F., *see* Davidson Frame, J., 19 (1990) 447
- Narin, F., *see* Albert, M.B., 20 (1991) 251
- Narin, F. and D. Olivastro, Status report: Linkage between technology and science 21 (1992) 237
- Narin, F., E. Noma and R. Perry, Patents as indicators of corporate technological strength 22 (1993) 108
- Narin, F. and A. Breitzman, Inventive productivity 24 (1995) 507
- Narin, F., K.S. Hamilton and D. Olivastro, The increasing linkage between U.S. technology and public science 26 (1998) 317
- Näslund, B. and B. Sellstedt, A note on the implementation and use of models for R & D planning 2 (1973/74) 72
- Nazli Wasti, S., *see* Liker, J.K., 25 (1997) 59
- Nederhof, A.J., *see* Rip, A., 15 (1986) 253

- Nederhof, A.J., Between accommodation and orchestration: The implementation of the science policy priority for biotechnology in the Netherlands 19 (1990) 379
- Nederhof, A.J. and A.F.J. Van Raan, A bibliometric analysis of six economics research groups: A comparison with peer review 22 (1993) 353
- Nejedly, R., *see* Müller, K., 1 (1971/72) 320
- Nelson, J.P., *see* Feller, I., 28 (1999) 805
- Nelson, R.R. and S.G. Winter, In search of useful theory of innovation 6 (1977) 36
- Nelson, R.R., U.S. technological leadership: Where did it come from and where did it go? 19 (1990) 117
- Nelson, R.R., Capitalism as an engine of progress 19 (1990) 193
- Nelson, R.R. and S.G. Winter, In search of useful theory of innovation 22 (1993) 108
- Nelson, R.R., *see* Rosenberg, N., 23 (1994) 323
- Nelson, R.R., *see* Klevorick, A.K., 24 (1995) 185
- Nelson, R.R., *see* Mazzoleni, R., 27 (1998) 273
- Nerlinger, E., *see* Licht, G., 26 (1998) 1005
- Nightingale, P., A cognitive model of innovation 27 (1998) 689
- Nijhuis, F.J.N., *see* Spangenberg, J.F.A., 19 (1990) 239
- Niosi, J., The Internationalization of Industrial R & D 28 (1999) 107
- Niosi, J. and B. Godin, Canadian R & D abroad management practices 28 (1999) 215
- Niwa, F., *see* Ahrens, H.J., 2 (1973/74) 94
- Nobel, R., *see* Håkanson, L., 22 (1993) 373
- Nobel, R., *see* Håkanson, L., 22 (1993) 397
- Nobeoka, K., *see* Cusumano, M.A., 21 (1992) 265
- Nobeoka, K., *see* Baba, Y., 26 (1998) 643
- Noma, E., *see* Narin, F., 16 (1987) 143
- Noma, E., *see* Narin, F., 22 (1993) 108
- Nooteboom, B., Innovation and inter-firm linkages: new implications for policy 28 (1999) 791
- Nowotny, H. and H. Hirsch, The consequences of dissent: Sociological reflections on the controversy of the low dose effect 9 (1980) 278
- Nowotny, H. and H. Hirsch, The consequences of dissent: Sociological reflections on the controversy of the low-dose effects 22 (1993) 108
- Noyons, E.C.M., A.F.J. van Raan, H. Grupp and U. Schmoch, Exploring the science and technology interface: inventor-author relations in laser medicine research 23 (1994) 443
- Noyons, E.C.M., M. Luwel and H.F. Moed, Assessment of Flemish R & D in the field of information technology. A bibliometric evaluation based on publication and patent data, combined with OECD research input statistics 27 (1998) 285
- Numagami, T., Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 25 (1997) 133
- Odagiri, H., Research activity, output growth, and productivity increase in Japanese manufacturing industries 14 (1985) 117
- Odagiri, H. and H. Iwata, The impact of R & D on productivity increase in Japanese manufacturing companies 15 (1986) 13
- Odagiri, H. and N. Murakami, Private and quasi-social rates of return on pharmaceutical R & D in Japan 21 (1992) 335
- Odagiri, H. and H. Yasuda, The determinants of overseas R & D by Japanese firms: an empirical study at the industry and company levels 25 (1997) 1059
- Odagiri, H., Y. Nakamura and M. Shibuya, Research consortia as a vehicle for basic research: the case of a fifth generation computer project in Japan 26 (1998) 191
- Ogawa, S., Does sticky information affect the locus of innovation? Evidence from the Japanese convenience-store industry 26 (1998) 777
- Olds, B., *see* Van Hulst, N., 22 (1993) 455
- Oldsman, E., Does manufacturing extension matter? An evaluation of the Industrial Technology Service in New York 25 (1997) 215
- Olivastro, D., *see* Narin, F., 21 (1992) 237
- Olivastro, D., *see* Narin, F., 26 (1998) 317
- Om, K., *see* Lee, M., 25 (1997) 805
- Ormala, E., Nordic experiences of the evaluation of technical research and development 18 (1989) 333
- Orsenigo, L., *see* Malerba, F., 25 (1997) 451
- Orsenigo, L., *see* Malerba, F., 28 (1999) 643
- Oshima, K., Technological innovation and industrial research in Japan 13 (1984) 285
- Oskarsson, C., *see* Jacobsson, S., 24 (1995) 127
- Oskarsson, C., *see* Jacobsson, S., 25 (1997) 573
- Otaki, E., *see* Yamada, K., 1 (1971/72) 352

- Oxley, J.E., *see* Mowery, D.C., 27 (1998) 507
- Oyalaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi, Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 25 (1997) 1081
- Pachico, D., J.K. Lynam and P.G. Jones, The distribution of benefits from technical change among classes of consumers and producers: An ex ante analysis of beans in Brazil 16 (1987) 279
- Padmore, T., H. Schuetze and H. Gibson, Modeling systems of innovation: An enterprise-centered view 26 (1998) 605
- Padmore, T. and H. Gibson, Modeling systems of innovation: II. A framework for industrial cluster analysis in regions 26 (1998) 625
- Palda, K.S. and B. Pazderka, International comparisons of R & D effort: The case of the Canadian pharmaceutical industry 11 (1982) 247
- Palda, K.S., Technological intensity: Concept and measurement 15 (1986) 187
- Palladino, P., *see* Thirtle, C., 26 (1998) 557
- Palombarini, S., *see* Amable, B., 27 (1998) 655
- Papaconstantinou, G., N. Sakurai and A. Wyckoff, Domestic and international product-embodied R & D diffusion 27 (1998) 301
- Papanastassiou, M., *see* Pearce, R., 28 (1999) 23
- Papon, P., Research planning in French science policy: an assessment 2 (1973/74) 226
- Papon, P., The state and technological competition in France or Colbertism in the 20th century 4 (1975) 214
- Papon, P., Centres of decision in French science policy: The contrasting influences of scientific experts and administrators 8 (1979) 384
- Papon, P., Centers of decision in French science policy: The contrasting influences of scientific experts and administrators 22 (1993) 109
- Papon, P., Research institutions in France: between the Republic of science and the nation-state in crisis 27 (1998) 771
- Pardey, P.G., B. Craig and M.L. Hallaway, U.S. agricultural research deflators 1890-1985 18 (1989) 289
- Park, W.G., *see* Ginarte, J.C., 26 (1998) 283
- Paschen, H. and K. Gresser, Some remarks and proposals concerning the planning and performance of technology assessment studies 2 (1973/74) 306
- Patel, P. and K. Pavitt, Is Western Europe losing the technological race? 16 (1987) 59
- Patel, P. and K. Pavitt, The continuing, widespread (and neglected) importance of improvements in mechanical technologies 23 (1994) 533
- Patel, P. and K. Pavitt, The technological competencies of the world's largest firms: complex and path-dependent, but not much variety 26 (1998) 141
- Patel, P. and M. Vega, Patterns of internationalisation of corporate technology: location vs. home country advantages 28 (1999) 145
- Pavitt, K., Technology in Europe's future 1 (1971/72) 210
- Pavitt, K. and W. Walker, Government politics towards industrial innovation: a review 5 (1976) 11
- Pavitt, K., R & D patenting and innovative activities: A statistical exploration 11 (1982) 33
- Pavitt, K., Sectoral patterns of technical change: Towards a taxonomy and a theory 13 (1984) 343
- Pavitt, K., *see* Patel, P., 16 (1987) 59
- Pavitt, K., *see* Robson, M., 17 (1988) 1
- Pavitt, K., *see* Freeman, C., 18 (1989) 253
- Pavitt, K., What makes basic research economically useful? 20 (1991) 109
- Pavitt, K. and W. Walker, Government policies towards industrial innovation: a review 22 (1993) 114
- Pavitt, K., *see* Patel, P., 23 (1994) 533
- Pavitt, K., *see* Patel, P., 26 (1998) 141
- Pavitt, K., The inevitable limits of EU R & D funding 27 (1998) 559
- Pavitt, K., The social shaping of the national science base 27 (1998) 793
- Pazderka, B., *see* Palda, K.S., 11 (1982) 247
- Peacock, T., *see* Irvine, J., 16 (1987) 213
- Pearce, R. and M. Papanastassiou, Overseas R & D and the strategic evolution of MNEs: evidence from laboratories in the UK 28 (1999) 23
- Pearce, R.D., Decentralised R & D and strategic competitiveness: globalised approaches to generation and use of technology in multinational enterprises (MNEs) 28 (1999) 157
- Pearson, A.W., *see* Hutcheson, P., 25 (1997) 25
- Peck, M.J. and A. Goto, Technology and economic growth: The case of Japan 10 (1981) 222
- Peck, M.J., Joint R & D: The case of microelectronics and Computer Technology Corporation 15 (1986) 219
- Penan, H., R & D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 25 (1997) 337
- Pennings, J.M., *see* Harianto, F., 23 (1994) 293
- Perani, G., *see* Evangelista, R., 26 (1998) 521

- Peres, W., *see* Alcorta, L., 26 (1998) 857
- Pérez-Castrillo, J.D., *see* Macho-Stadler, I., 25 (1997) 43
- Perry, R., *see* Narin, F., 16 (1987) 143
- Perry, R., *see* Narin, F., 22 (1993) 108
- Persson, O., *see* Höglund, L., 16 (1987) 29
- Peschke, A., *see* Grande, E., 28 (1999) 43
- Peters, D.H., *see* Roberts, E.B., 10 (1981) 108
- Peters, H.P.F. and A.F.J. Van Raan, Co-word based science maps of chemical engineering. Part I: Representations by direct multidimensional scaling 22 (1993) 23
- Peters, H.P.F. and A.F.J. Van Raan, Co-word-based science maps of chemical engineering. Part II: Representations by combined clustering and multidimensional scaling 22 (1993) 47
- Peters, L., P. Groenewegen and N. Fiebelkorn, A comparison of networks between industry and public sector research in materials technology and biotechnology 27 (1998) 255
- Peterson, J., Assessing the performance of European collaborative R & D policy: The case of Eureka 22 (1993) 243
- Philipson, J., *see* Jacobsson, S., 25 (1997) 573
- Phillimore, A.J., University research performance indicators in practice: The University Grants Committee's evaluation of British universities, 1985-1986 18 (1989) 255
- Pianta, M., *see* Archibugi, D., 21 (1992) 79
- Pianta, M., *see* Vivarelli, M., 25 (1997) 1013
- Pickney, D.L., *see* Allen, T.J., 12 (1983) 199
- Pielke Jr., R.A. and M.M. Betsill, Policy for science for policy: A commentary on Lambright on ozone depletion and acid rain 26 (1998) 157
- Piergiovanni, R., *see* Santarelli, E., 25 (1997) 689
- Piesse, J., *see* Thirtle, C., 26 (1998) 557
- Pirela, A., R. Rengifo, A. Mercado and R. Arvanitis, Technological learning and entrepreneurial behavior: A taxonomy of the chemical industry in Venezuela 22 (1993) 431
- Pisano, G.P., The governance of innovation: Vertical integration and collaborative arrangements in the biotechnology industry 20 (1991) 237
- Pisano, G.P., Learning-before-doing in the development of new process technology. 25 (1997) 1097
- Piscitello, L., *see* Mutinelli, M., 27 (1998) 491
- Pistorius, C.W.I. and J.M. Utterback, Multi-mode interaction among technologies 26 (1998) 67
- Polkinghorne, J.C., Particle physics - an alternative view 6 (1977) 412
- Polo-Redondo, Y., *see* Jimenez-Martinez, J., 26 (1998) 811
- Porter, A.L., *see* Rossini, F.A., 8 (1979) 70
- Possas, M.L., S. Salles-Filho and J.M. da Silveira, An evolutionary approach to technological innovation in agriculture: some preliminary remarks. 25 (1997) 933
- Poznański, K., A study of technical innovation in Polish industry 9 (1980) 232
- Poznański, K., A study of technical innovation in Polish Industry 22 (1993) 109
- Pray, C.E., S. Ribeiro, R.A.E. Mueller and P.P. Rao, Private research and public benefit: The private seed industry for sorghum and pearl millet in India 20 (1991) 315
- Prencipe, A., Technological competencies and product's evolutionary dynamics: a case study from the aero-engine industry 25 (1997) 1261
- Prevezer, M., *see* Swann, P., 25 (1997) 1139
- Prins, A.A.M., Behind the scenes of performance: Performance, practice and management in medical research 19 (1990) 517
- Quelin, B., *see* Garrette, B., 23 (1994) 395
- Quéré, M., Basic research inside the firm: lessons from an in-depth case study 23 (1994) 413
- Quintas, P. and K. Guy, Collaborative, pre-competitive R & D and the firm 24 (1995) 325
- Rabeharisoa, V., *see* Callon, M., 21 (1992) 215
- Radosevic, S. and L. Auriol, Patterns of restructuring in research, development and innovation activities in central and eastern European countries: an analysis based on S & T indicators 28 (1999) 351
- Rajan, J.V., *see* Joshi, S.S., 3 (1974/75) 292
- Rajan, J.V., N.D. Seth, S.K. Subramanian, A.K. Chakrabarti and A.H. Rubenstein, Transfer of indigenous technology - some Indian cases 10 (1981) 172
- Rajan, J.V., *see* Lachke, A.H., 17 (1988) 235
- Ranga Chand, U.K., Characteristics of research and development performing firms in Canadian manufacturing 11 (1982) 193

- Rao, P.P., *see* Pray, C.E., 20 (1991) 315
- Rapiti, F., *see* Evangelista, R., 26 (1998) 521
- Rappa, M.A., *see* Debackere, K., 23 (1994) 425
- Rappa, M.A., *see* Debackere, K., 24 (1995) 137
- Rappa, M.A., *see* Clarysse, B., 25 (1997) 671
- Rappert, B., A. Webster and D. Charles, Making sense of diversity and reluctance: academic-industrial relations and intellectual property 28 (1999) 871
- Ray, G.F., Innovation in industry: the state and results of recent economic research in western European countries except F.R. Germany 3 (1974/75) 338
- Ray, G.F., Research policy and industrial material 8 (1979) 80
- Ray, G.F., Full circle: The diffusion of technology 18 (1989) 1
- Reddy, N.M. and L. Zhao, International technology transfer: A review 19 (1990) 285
- Reddy, N.M., *see* Aram, J.D., 21 (1992) 409
- Reddy, N.M., *see* Lynn, L.H., 25 (1997) 91
- Reekie, W.D., Patent data as a guide to industrial activity 2 (1973/74) 246
- Reekie, W.D., An assessment of the benefits of the diffusion of an innovation 11 (1982) 261
- Reger, G., *see* Gerybadze, A., 28 (1999) 251
- Reger, G., *see* Meyer-Krahmer, F., 28 (1999) 749
- Rehn, D., *see* Simon, D.F., 16 (1987) 259
- Reigberger, G., *see* Utterback, J.M., 17 (1988) 15
- Reijnen, J.O.N., *see* Kleinknecht, A., 20 (1991) 579
- Reijnen, J.O.N., *see* Kleinknecht, A., 21 (1992) 347
- Reiss, T., *see* Frenkel, A., 23 (1994) 281
- Reitberger, G., *see* Utterback, J.M., 22 (1993) 113
- Remy, J.C., *see* Courtial, J.P., 17 (1988) 225
- Rengifo, R., *see* Pirela, A., 22 (1993) 431
- Reppy, J., Defense department payment for company financed R & D 6 (1977) 396
- Ribeiro, S., *see* Pray, C.E., 20 (1991) 315
- Richards, A., *see* Coombs, R., 25 (1997) 403
- Ridout, M.S., *see* Doyle, C.J., 14 (1985) 109
- Riggs, W. and E. von Hippel, Incentives to innovate and the sources of innovation: the case of scientific instruments 23 (1994) 459
- Rigter, H., Evaluation of performance of health research in the Netherlands 15 (1986) 33
- Rinia, E.J., Th.N. van Leeuwen, H.G. van Vuren and A.F.S. van Raan, Comparative analysis of a set of bibliometric indicators and central peer review criteria. Evaluation of condensed matter physics in the Netherlands 27 (1998) 95
- Rip, A., A cognitive approach to science policy 10 (1981) 294
- Rip, A. and A.J. Nederhof, Between dirigism and laissez-faire: Effects of implementing the science policy priority for biotechnology in the Netherlands 15 (1986) 253
- Rip, A., *see* van der Meulen, B., 27 (1998) 757
- Robbins, M.D. and J.G. Milliken, Government policies for technological innovation: criteria for an experimental approach 6 (1977) 214
- Robbins, M.D. and J.G. Milliken, Reply to Dr. Colton's rejoinder 6 (1977) 252
- Roberts, E., *see* Utterback, J.M., 17 (1988) 15
- Roberts, E., *see* Utterback, J.M., 22 (1993) 113
- Roberts, E.B. and D.H. Peters, Commercial innovations from university faculty 10 (1981) 108
- Roberts, E.B. and O. Hauptman, The process of technology transfer to the new biomedical and pharmaceutical firm 15 (1986) 107
- Roberts, E.B., The technological base of the new enterprise 20 (1991) 283
- Roberts, J.H., *see* Midgley, D., 21 (1992) 533
- Roberts, R., Managing innovation: The pursuit of competitive advantage and the design of innovation intense environments 27 (1998) 159
- Robertson, A. and M. Frost, Duopoly in the scientific instrument industry: The milk analyser case 7 (1978) 292
- Robertson, A.B., *see* Rothwell, R., 2 (1973/74) 204
- Robertson, A.B., *see* Rothwell, R., 3 (1974/75) 258
- Robertson, A.B., *see* Rothwell, R., 22 (1993) 110
- Robertson, P.L., *see* Langlois, R.N., 21 (1992) 297
- Robertson, P.L. and R.N. Langlois, Innovation, networks and vertical integration 24 (1995) 543
- Robinson, D.M., J. Moscovitz and C.J.M. Lenfant, From the gene to the general practitioner: A paradigm of research 14 (1985) 189
- Robson, M., J. Townsend and K. Pavitt, Sectoral patterns of production and use of innovations in the UK: 1945-1983 17 (1988) 1

- Roering, K., *see* Bozeman, B., 7 (1978) 384
- Roessner, J.D., The local government market as a stimulus to industrial innovation 8 (1979) 340
- Roessner, J.D., Commercializing solar technology: The government role 13 (1984) 235
- Roessner, J.D., Evaluation of government innovation programs: Introduction 18 (1989) 309
- Roessner, J.D., Evaluating government innovation programs: Lessons from the U.S. experience 18 (1989) 343
- Roessner, J.D., *see* Shapira, P., 25 (1997) 181
- Roessner, J.D., *see* Shapira, P., 25 (1997) 185
- Romeo, A., *see* Mansfield, E., 12 (1983) 105
- Ronayne, J., *see* Drath, L., 4 (1975) 56
- Rosenberg, N., *see* Mowery, D.C., 8 (1979) 102
- Rosenberg, N., Why do firms do basic research (with their own money)? 19 (1990) 165
- Rosenberg, N., Scientific instrumentation and university research 21 (1992) 381
- Rosenberg, N., *see* Mowery, D.C., 22 (1993) 107
- Rosenberg, N. and R.R. Nelson, American universities and technical advance in industry 23 (1994) 323
- Rosenbloom, R.S. and W.J. Abernathy, The climate for innovation in industry: the role of management attitudes and practices in consumer electronics 11 (1982) 209
- Rosenbloom, R.S., *see* Christensen, C.M., 24 (1995) 233
- Rosenfeld, S.A., Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 25 (1997) 247
- Ross, H.H., W.S. Lyon and W.D. Shults, Setting research priorities 8 (1979) 260
- Rossini, F.A. and A.L. Porter, Frameworks for integrating interdisciplinary research 8 (1979) 70
- Rothman, H., *see* Healy, P., 15 (1986) 233
- Rothwell, R., Nucleonic thickness gauges – a SAPPHO pair 2 (1973/74) 144
- Rothwell, R. and A.B. Robertson, The role of communications in technological innovation 2 (1973/74) 204
- Rothwell, R., The 'Hungarian SAPPHO': some comments and comparisons 3 (1974/75) 30
- Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend, SAPPHO updated – project SAPPHO phase II 3 (1974/75) 258
- Rothwell, R., *see* Catling, H., 6 (1977) 164
- Rothwell, R., Non-price factors in the export competitiveness of agricultural engineering products 10 (1981) 260
- Rothwell, R., Venture finance, small firms and public policy in the UK 14 (1985) 253
- Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend, SAPPHO updated – project SAPPHO phase II 22 (1993) 110
- Rozek, R.P., *see* Narin, F., 17 (1988) 139
- Rubenstein, A.H., *see* Köhler, B.M., 2 (1973/74) 160
- Rubenstein, A.H., *see* Schlie, T.W., 3 (1974/75) 98
- Rubenstein, A.H., C.F. Douds, H. Geschka, T. Kawase, J.P. Miller, R. Saintpaul and D. Watkins, Management perceptions of government incentives to technological innovation in England, France, West Germany and Japan 6 (1977) 324
- Rubenstein, A.H., *see* Lee, J., 9 (1980) 174
- Rubenstein, A.H., *see* Rajan, J.V., 10 (1981) 172
- Rubenstein, A.H., *see* Zhou, L.Y., 15 (1986) 49
- Ruefli, T.W., *see* Dowling, M.J., 21 (1992) 63
- Rupp, A., The RKW: a new approach towards technology transfer. Methods for the promotion of innovation in small- and medium-sized companies 5 (1976) 398
- Rush, H., *see* Bessant, J., 24 (1995) 97
- Russo, M., Technical change and the industrial district: The role of interfirm relations in the growth and transformation of the ceramic tile industry in Italy 14 (1985) 329
- Ruttan, V.W., Technical and institutional transfer in agricultural development 4 (1975) 350
- Ruttan, V.W., Toward a global agricultural research system: A personal view 15 (1986) 307
- Ryan, J.A., *see* McKeon, R., 18 (1989) 379
- Rycroft, R.W. and D.E. Kash, Complex technology and community: implications for policy and social science. 23 (1994) 613
- Sabel, C.F., A measure of federalism: assessing manufacturing technology centers 25 (1997) 281
- Sahal, D., Alternative conceptions of technology 10 (1981) 2
- Sahal, D., The farm factor and the nature of technological innovation 10 (1981) 368
- Sahal, D., Technological guideposts and innovation avenues 14 (1985) 61
- Sahal, D., Technological guideposts and innovation avenues 22 (1993) 110
- Saintpaul, R., *see* Rubenstein, A.H., 6 (1977) 324
- Sakakibara, M., Evaluating government-sponsored R & D consortia in Japan: who benefits and how? 26 (1998) 447

- Sakakura, S. and M. Kobayshi, R & D management in Japanese research institutes 20 (1991) 531
- Sakurai, N., *see* Papaconstantinou, G., 27 (1998) 301
- Salles-Filho, S., *see* Possas, M.L., 25 (1997) 933
- Sanderson, S., *see* Uzumeri, M., 24 (1995) 583
- Sanderson, S. and M. Uzumeri, Managing product families: The case of the Sony Walkman 24 (1995) 761
- Santarelli, E. and R. Piergiovanni, Analyzing literature-based innovation output indicators: The Italian experience 25 (1997) 689
- Sanz, E., *see* Gómez, I., 19 (1990) 457
- Saqib, M., *see* Kumar, N., 25 (1997) 713
- Sasaki, T., *see* Aldrich, H.E., 24 (1995) 301
- Saul, S.B., MRCA; Comment on the article by W.B. Walker 3 (1974/75) 373
- Saviotti, P., *see* Gibbons, M., 11 (1982) 289
- Saviotti, P.P. and J.S. Metcalfe, A theoretical approach to the construction of technological output indicators 13 (1984) 141
- Saviotti, P.P., On the dynamics of appropriability, of tacit and of codified knowledge 26 (1998) 843
- Saviotti, P.P., *see* Frenken, K., 28 (1999) 469
- Saviotti, P.P. Information, variety and entropy in technoeconomic development 17 (1988) 89
- Savoy, A., *see* Delapierre, M., 26 (1998) 989
- Saxenian, A., The origins and dynamics of production networks in Silicon Valley 20 (1991) 423
- Schakenraad, J., *see* Hagedoorn, J., 21 (1992) 163
- Scherer, F.M., Inter-industry technology flows in the United States 11 (1982) 227
- Scherer, F.M., Inter-industry technology flows in the United-States 22 (1993) 111
- Scherer, F.M. and K. Huh, Top managers' education and R & D investment 21 (1992) 507
- Schiffel, D. and C. Kitti, Rates of invention: International patent comparisons 7 (1978) 324
- Schiffel, D.D., *see* Bean, A.S., 4 (1975) 380
- Schiffel, D.D., *see* Windus, M.L., 5 (1976) 180
- Schimank, U., The contribution of university research to the technological innovation of the German economy: Societal autodynamic and political guidance 17 (1988) 329
- Schimank, U., *see* Mayntz, R., 27 (1998) 747
- Schlie, T.W. and A.H. Rubenstein, Some aspects of regional-national scientific relationships in East Africa: a summary 3 (1974/75) 98
- Schmoch, U., *see* Noyons, E.C.M., 23 (1994) 443
- Schmoch, U., *see* Meyer-Krahmer, F., 27 (1998) 835
- Schmoch, U., *see* Grupp, H., 28 (1999) 377
- Schnee, J.D., R & D strategy in the U.S. pharmaceutical industry 8 (1979) 364
- Schnee, J.E., Government programs and the growth of high technology industries 7 (1978) 2
- Schott, B. and K. von Grebmer, R & D, innovation and micro-economic growth: a case study 2 (1973/74) 380
- Schott, B. and W. Müller, Process innovations and improvements as a determinant of the competitive position in the international plastic market 4 (1975) 88
- Schrader, S., Informal technology transfer between firms: Cooperation through information trading 20 (1991) 153
- Schrader, S., *see* Tripsas, M., 24 (1995) 367
- Schuetze, H., *see* Padmore, T., 26 (1998) 605
- Schwarz, M., European policies on space science and technology 1960-1978 8 (1979) 204
- Schwarz, S., Notes on conferencemanship: towards a model of homo audiens 1 (1971/72) 404
- Schwarzkopf, A., *see* Achilladelis, B., 16 (1987) 175
- Schwarzkopf, A., *see* Achilladelis, B., 19 (1990) 1
- Scott, A.J., The aerospace-electronics industrial complex of Southern California: The formative years 1940-1960 20 (1991) 439
- Scott, A.J., *see* De Vet, J.M., 21 (1992) 145
- Sedaitis, J.B., *see* Hagedoorn, J., 27 (1998) 177
- Seguin-Dulude, L., *see* Amesse, F., 20 (1991) 13
- Seligman, N.G., *see* Spharim, I., 14 (1985) 53
- Sellsedt, B., *see* Näslund, B., 2 (1973/74) 72
- Senker, J., Evaluating the funding of strategic science: Some lessons from British experience 20 (1991) 29
- Senker, J., *see* Faulkner, W., 23 (1994) 673
- Serapio Jr., M.G. and D.H. Dalton, Globalization of industrial R & D: an examination of foreign direct investments in R & D in the United States 28 (1999) 303
- Serin, G., *see* Hansen, P.A., 22 (1993) 181
- Seth, N.D., *see* Rajan, J.V., 10 (1981) 172
- Sewell, G., *see* Chen, C.F., 25 (1997) 759
- Shapira, P. and J.D. Roessner, Evaluating industrial modernization: Introduction to the theme issue 25 (1997) 181

- Shapira, P., J. Youtie and J.D. Roessner, Current practices in the evaluation of US industrial modernization programs 25 (1997) 185
- Sharp, M., *see* Balmer, B., 22 (1993) 463
- Sharp, M., Competitiveness and cohesion – are the two compatible? 27 (1998) 569
- Shenhar, A., *see* Dvir, D., 27 (1998) 915
- Shenhar, A.J. and D. Dvir, Towards a typological theory of project management 25 (1997) 607
- Shibuya, M., *see* Odagiri, H., 26 (1998) 191
- Shrivastava, P., *see* Souder, W.E., 14 (1985) 151
- Shults, W.D., *see* Ross, H.H., 8 (1979) 260
- Sigogneau, A., *see* Zitt, M., 28 (1999) 545
- Sikka, P., Analysis of in-house R & D centres of innovative firms in India 27 (1998) 429
- Silverman, B-S., *see* Mowery, D.C., 27 (1998) 507
- Simon, D.F. and D. Rehn, Innovation in China's semiconductor components industry: The case of Shanghai 16 (1987) 259
- Sims, L., *see* Feller, I., 16 (1987) 315
- Sinclair, C., The incorporation of health and welfare risks into technological forecasts 1 (1971/72) 40
- Sirbu Jr., M.A., Government aid for the development of innovative technology: Lessons from the French 7 (1978) 176
- Sirbu, M.A., *see* Allen, Th.J., 7 (1978) 124
- Sirilli, G., The innovative activities of researchers in Italian industry 13 (1984) 63
- Sirilli, G., The researcher in Italy: A profession in search of recognition 15 (1986) 329
- Sirilli, G., Patents and inventors: An empirical study 16 (1987) 157
- Sirilli, G., The innovative activities of researchers in Italian industry 22 (1993) 111
- Sirilli, G. and R. Evangelista, Technological innovation in services and manufacturing: results from Italian surveys 27 (1998) 881
- Sjölander, S., *see* Granstrand, O., 19 (1990) 35
- Sjölander, S., *see* Granstrand, O., 22 (1993) 413
- Slama, J., *see* Amann, R., 5 (1976) 302
- Slaughter, S., Innovation and learning during implementation: a comparison of user and manufacturer innovations 22 (1993) 81
- Sluwaegen, L., *see* Holemans, B., 17 (1988) 375
- Slusher, E.A., *see* Bozeman, B., 7 (1978) 384
- Smart, C.C. and P.K. Marstrand, Antibiotic technology in agriculture 1 (1971/72) 364
- Smith, I.J., *see* Tether, B.S., 26 (1998) 19
- Smith, K., Public support for civil R & D in the UK: Limitations of recent policy debate 18 (1989) 99
- Smith, S.L., *see* Lawton Smith, H., 20 (1991) 457
- Sobrero, M., *see* Tripsas, M., 24 (1995) 367
- Soete, L., The impact of technological innovation on international trade patterns: The evidence reconsidered 16 (1987) 101
- Solleiro, J.L., *see* Waissbluth, M., 17 (1988) 341
- Son, B., *see* Lee, M., 25 (1997) 805
- Soto, M.A., *see* Gluck, M.E., 16 (1987) 327
- Souder, W.E. and P. Shrivastava, Towards a scale for measuring technology in new product innovations 14 (1985) 151
- Spaa, J.H., The economic effects of innovation: Some calculations for The Netherlands 9 (1980) 54
- Spangenberg, J.F.A., R. Starmans, Y.W. Bally, B. Breemhaar, F.J.N. Nijhuis and C.A.F. van Dorp, Prediction of scientific performance in clinical medicine 19 (1990) 239
- Spharim, I. and N.G. Seligman, A graphical method for relating multiple socio-economic goals to research and development in agriculture 14 (1985) 53
- Spiller, P.T. and M. Teubal, Analysis of R & D failure 6 (1977) 254
- Spiller, P.T. and M. Teubal, Analysis of R & D failure 22 (1993) 113
- Spital, F.C., An analysis of the role of users in the total R & D portfolios of scientific instrument firms 8 (1979) 284
- Srinivasan, M.C., *see* Lachke, A.H., 17 (1988) 235
- Stahl, H., *see* Beise, M., 28 (1999) 397
- Stähle, B., *see* Luukkonen, T., 19 (1990) 357
- Starmans, R., *see* Spangenberg, J.F.A., 19 (1990) 239
- Stead, H., The costs of technological innovation 5 (1976) 2
- Steck, R., R & D coordination in industry and university 3 (1974/75) 360
- Stein, B.R., Public accountability and the project-grant mechanism 2 (1973/74) 2
- Steinmueller, E., *see* Teubal, M., 11 (1982) 271
- Sterlacchini, A., Do innovative activities matter to small firms in non-R & D-intensive industries? An application to export performance 28 (1999) 817
- Sternberg, R.G., Government R & D expenditure and space: empirical evidence from five industrialized countries 25 (1997) 741
- Stewart, J., Models of priority-setting for public sector research 24 (1995) 115

- Stoneman, P., The use of a levy/grant system as an alternative to tax based incentives to R & D 20 (1991) 195
- Stoneman, R. and G. Battisti, Fiscal incentives to consumer innovation: the use of unleaded petrol in Europe 27 (1998) 187
- Storey, D.J. and B.S. Tether, New technology-based firms in the European union: an introduction 26 (1998) 933
- Storey, D.J., *see* Tether, B.S., 26 (1998) 947
- Storey, D.J. and B.S. Tether, Public policy measures to support new technology-based firms in the European Union 26 (1998) 1037
- Storper, M. and B. Harrison, Flexibility, hierarchy and regional development: The changing structure of industrial production systems and their forms of governance in the 1990s 20 (1991) 407
- Storper, M., Regional technology coalitions. An essential dimension of national technology policy 24 (1995) 895
- Stubbs, P.C., *see* Gibbons, M., 11 (1982) 289
- Studer, K.E., *see* Burns, E.M., 4 (1975) 28
- Studer, K.E., *see* Burns, E.M., 5 (1976) 201
- Suárez González, I., *see* Galende Del Canto, J., 28 (1999) 889
- Suárez, F., *see* Utterback, J.M., 22 (1993) 1
- Subramanian, S.K., *see* Joshi, S.S., 3 (1974/75) 292
- Subramanian, S.K., *see* Rajan, J.V., 10 (1981) 172
- Swann, P. and M. Prevezer, A comparison of the dynamics of industrial clustering in computing and biotechnology 25 (1997) 1139
- Swann, P., *see* Baptista, R., 27 (1998) 525
- Sweeney, D.J., *see* Baker, N.R., 7 (1978) 150
- Sweet, S., *see* Hicks, D., 23 (1994) 375
- Switzer, L., *see* Mansfield, E., 12 (1983) 105
- Switzer, L., *see* Mansfield, E., 14 (1985) 97
- Szakasits, G.D., The adoption of the SAPPHO method in the Hungarian electronics industry 3 (1974/75) 18
- Taccine, P., *see* De Marchi, M., 25 (1997) 13
- Taggart, J.H., *see* Berry, M.M.J., 26 (1998) 883
- Takai, S., *see* Baba, Y., 24 (1995) 473
- Tambe, S.A., *see* Lachke, A.H., 17 (1988) 235
- Tanaka, M., Japanese-style evaluation systems for R & D projects: The MITI experience 18 (1989) 361
- Tanaka, M., Japanese-style evaluation systems for R & D projects: The MITI experience 22 (1993) 112
- Tanaka, S., *see* Fransman, M., 24 (1995) 13
- Tanaka, Y. and R. Hirasawa, Features of policy making processes in Japan's Council for Science and Technology 25 (1997) 999
- Tassey, G., The role of government in supporting measurement standards for high-technology industries 11 (1982) 311
- Tassey, G., The technology policy experiment as policy research tool 14 (1985) 39
- Tassey, G., The functions of technology infrastructure in a competitive economy 20 (1991) 345
- Teece, D.J., Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy 15 (1986) 285
- Teece, D.J., Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy 22 (1993) 112
- Teitel, S., Towards an understanding of technical change in semi-industrialized countries 10 (1981) 127
- Ternière-Buchot, P.F., Technological assessment of external effect 2 (1973/74) 18
- Tether, B.S., I.J. Smith and A.T. Thwaites, Smaller enterprises and innovation in the UK: the SPRU Innovations Database revisited 26 (1998) 19
- Tether, B.S., *see* Storey, D.J., 26 (1998) 933
- Tether, B.S. and D.J. Storey, Smaller firms and Europe's high technology sectors: a framework for analysis and some statistical evidence 26 (1998) 947
- Tether, B.S., *see* Storey, D.J., 26 (1998) 1037
- Tether, B.S., Small and large firms: sources of unequal innovations? 27 (1998) 725
- Teubal, M., *see* Spiller, P.T., 6 (1977) 254
- Teubal, M. and E. Steinmueller, Government policy, innovation and economic growth: Lessons from a study of satellite communications 11 (1982) 271
- Teubal, M., The R & D performance through time of young, high-technology firms: Methodology and an illustration 11 (1982) 333
- Teubal, M., *see* Justman, M., 15 (1986) 121
- Teubal, M., T. Yinnon and E. Zuscovitch, Networks and market creation 20 (1991) 381
- Teubal, M., *see* Spiller, P.T., 22 (1993) 113
- Teubal, M., *see* Justman, M., 24 (1995) 259
- Teubal, M., A catalytic and evolutionary approach to horizontal technology policies 25 (1997) 1161

- Teubal, M.N., N. Armon and M. Trachtenberg, Performance in innovation in the Israeli electronics industry: a case study of biomedical electronics instrumentation 5 (1976) 354
- Thirtle, C., P. Palladino and J. Piesse, On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms 26 (1998) 557
- Thomas, S.M., K. Kimura and J.F. Burke, Patenting of recombinant proteins: An analysis of tissue plasminogen activator (t-PA) in Europe, The United States and Japan 24 (1995) 645
- Thomke, S., E. von Hippel and R. Franke, Modes of experimentation: an innovation process - and competitive - variable 27 (1998) 315
- Thomke, S.H., The role of flexibility in the development of new products: An empirical study 26 (1998) 105
- Thomke, S.H., Simulation, learning and R & D performance: Evidence from automotive development 27 (1998) 55
- Thwaites, A.T., *see* Tether, B.S., 26 (1998) 19
- Tijssen, R.J.W., A quantitative assessment of interdisciplinary structures in science and technology: Co-classification analysis of energy research 21 (1992) 27
- Tijssen, R.J.W. and J.C. Korevaar, Unravelling the cognitive and interorganisational structure of public/private R & D networks: A case study of catalysis research in the Netherlands 25 (1997) 1277
- Tijssen, R.J.W., Quantitative assessment of large heterogeneous R & D networks: the case of process engineering in the Netherlands 26 (1998) 791
- Tijssen, R.J.W. and E. van Wijk, In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge flows in information and communication technologies research 28 (1999) 519
- Tishler, A., *see* Dvir, D., 27 (1998) 915
- Tong, X. and J.D. Frame, Measuring national technological performance with patent claims data 23 (1994) 133
- Toren, N. and D. Galai, The determinants of the potential effectiveness of government-supported industrial research institutes 7 (1978) 362
- Torrisi, S., *see* Gambardella, A., 27 (1998) 445
- Townsend, J., *see* Rothwell, R., 3 (1974/75) 258
- Townsend, J., *see* Bresson, C., 7 (1978) 48
- Townsend, J., *see* Robson, M., 17 (1988) 1
- Townsend, J., *see* Rothwell, R., 22 (1993) 110
- Trachtenberg, M., *see* Teubal, M.N., 5 (1976) 354
- Tripsas, M., S. Schrader and M. Sobrero, Discouraging opportunistic behavior in collaborative R & D: A new role for government 24 (1995) 367
- Trommter, M., *see* Frenken, K., 28 (1999) 469
- Tsukahara, S. and K. Yamada, A note on the time lag between the life cycle of a discipline and resource allocation in Japan 11 (1982) 133
- Turkcan, E., The limits of science policy in a developing country: the Turkish case. A study based on the experience of the scientific and technical research council of Turkey 2 (1973/74) 336
- Turner, W.A., B. Michelet and J.P. Courtial, Scientific and Technological Information Banks for the network management of research 19 (1990) 467
- Tyre, M.J., Managing the introduction of new process technology: International differences in a multi-plant network 20 (1991) 57
- Tyre, M.J., *see* Von Hippel, E., 24 (1995) 1
- Uhlmann, L., Innovation in industry: A discussion of the state-of-the-art and the results of innovation research in German-speaking countries 4 (1975) 312
- Ulrich, K., The role of product architecture in the manufacturing firm 24 (1995) 419
- Utterback, J., Obituary of William J. Abernathy 14 (1985) 1
- Utterback, J.M., *see* Allen, Th.J., 7 (1978) 124
- Utterback, J.M., *see* Bollinger, L., 12 (1983) 1
- Utterback, J.M., M. Meyer, E. Roberts and G. Reigberger, Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980 17 (1988) 15
- Utterback, J.M. and F. Suárez, Innovation, competition and industry structure 22 (1993) 1
- Utterback, J.M., M. Meyer, E. Roberts and G. Reitberger, Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980 22 (1993) 113
- Utterback, J.M., *see* Pistorius, C.W.I., 26 (1998) 67
- Uzumeri, M. and S. Sanderson, A framework for model and product family competition 24 (1995) 583
- Uzumeri, M., *see* Sanderson, S., 24 (1995) 761
- v. Berg, I., *see* Ahrens, H.J., 2 (1973/74) 94

- Valentine, B., Obstacles to space co-operation: Europe and the post-Apollo Experience 1 (1971/72) 104
- Van den Besselaar, P., see Leydesdorff, L., 23 (1994) 217
- van den Daele, W. and W. Krohn, Experimental implementation as a linking mechanism in the process of innovation 27 (1998) 853
- van den Ende, J. and R. Kemp, Technological transformations in history: how the computer regime grew out of existing computing regimes 28 (1999) 831
- van der Meulen, B., Science policies as principal agent games. Institutionalization and path dependency in the relation between government and science 27 (1998) 397
- van der Meulen, B. and A. Rip, Mediation in the Dutch science system 27 (1998) 757
- Van der Werf, P.A., Explaining downstream innovation by commodity suppliers with expected innovation benefit 21 (1992) 315
- Van Dierdonck, R., K. Debackere and B. Engelen, University-industry relationship: How does the Belgian academic community feel about it? 19 (1990) 551
- van Dijk, T. and G. Duysters, Passing the European Patent Office: evidence from the data-processing industry 27 (1998) 937
- van Dorp, C.A.F., see Spangenberg, J.F.A., 19 (1990) 239
- Van Hulst, N. and B. Olds, On high tech snobbery 22 (1993) 455
- van Leeuwen, Th.N., see Rinia, E.J., 27 (1998) 95
- Van Raan, A.F.J., see Moed, H.F., 14 (1985) 131
- Van Raan, A.F.J., see Van Vianen, B.G., 19 (1990) 61
- Van Raan, A.F.J., see Peters, H.P.F., 22 (1993) 23
- Van Raan, A.F.J., see Peters, H.P.F., 22 (1993) 47
- Van Raan, A.F.J., see Nederhof, A.J., 22 (1993) 353
- Van Raan, A.F.J., see Engelsman, E.C., 23 (1994) 1
- Van Raan, A.F.J., see Noyons, E.C.M., 23 (1994) 443
- Van Raan, A.F.S., see Rinia, E.J., 27 (1998) 95
- Van Reenen, J., see Geroski, P.A., 26 (1998) 33
- Van Reenen, J., Why has Britain had slower R & D growth? 26 (1998) 493
- Van Vianen, B.G., H.F. Moed and A.F.J. van Raan, An exploration of the science base of recent technology 19 (1990) 61
- van Vuren, H.G., see Rinia, E.J., 27 (1998) 95
- van Wijk, E., see Tijssen, R.J.W., 28 (1999) 519
- Van Wijk, R.J. and J.P.H. Wessels, Focussing a co-operative industrial research institute: A case study 16 (1987) 39
- Vanderwerf, P.A., Product tying and innovation in U.S. wire preparation equipment 19 (1990) 83
- Väyrynen, R., Global interdependence or the European fortress? Technology policies in perspective 27 (1998) 627
- Vega, M., see Patel, P., 28 (1999) 145
- Vehorn, C.L., J.S. Landefeld and D.P. Wagner, Measuring the contribution of biomedical research to the production of health 11 (1982) 3
- Venkataraman, S., see Majumdar, S.K., 22 (1993) 521
- Verspagen, B., see Kleinknecht, A., 19 (1990) 387
- Veugelers, R., Internal R & D expenditures and external technology sourcing 26 (1998) 303
- Veugelers, R. and B. Cassiman, Make and buy in innovation strategies: evidence from Belgian manufacturing firms 28 (1999) 63
- Vincenti, W.G., Variation-selection in the innovation of the retractable airplane landing gear: the Northrop 'anomaly' 23 (1994) 575
- Vinkler, P., Management system for a scientific research institute based on the assessment of scientific publications 15 (1986) 77
- Vivarelli, M., R. Evangelista and M. Pianta, Innovation and employment in Italian manufacturing industry 25 (1997) 1013
- von Grebmer, K., see Schott, B., 2 (1973/74) 380
- Von Hippel, E., The dominant role of users in the scientific instrument innovation process 5 (1976) 212
- Von Hippel, E., A customer-active paradigm for industrial product idea generation 7 (1978) 240
- Von Hippel, E., Appropriability of innovation benefit as a predictor of the source of innovation 11 (1982) 95
- Von Hippel, E., Cooperation between rivals: Informal know-how trading 16 (1987) 291
- Von Hippel, E., Task partitioning: An innovation process variable 19 (1990) 407
- Von Hippel, E., The dominant role of users in the scientific instrument innovation process 22 (1993) 103
- Von Hippel, E., see Riggs, W., 23 (1994) 459
- Von Hippel, E. and M.J. Tyre, How learning by doing is done: problem identification in novel process equipment. 24 (1995) 1
- Von Hippel, E., see Thomke, S., 27 (1998) 315
- von Zedtwitz, M., see Gassmann, O., 28 (1999) 231
- Vonortas, N.S., Research joint ventures in the US 26 (1998) 577
- Vos, C.M. and C.L. Balfoort, Strategic conferencing: A new approach in science policy 18 (1989) 51
- Voss, C.A., Implementation: A key issue in manufacturing technology: The need for a field of study 17 (1988) 55
- Wagner, D.P., see Vehorn, C.L., 11 (1982) 3

- Waissbluth, M., G. Cadena and J.L. Solleiro, Linking university and industry: An organizational experience in Mexico 17 (1988) 341
 Wakasugi, R., Why are Japanese firms so innovative in engineering technology? 21 (1992) 1
 Wakelin, K., Innovation and export behavior at the firm level 26 (1998) 829
 Walker, G., *see* Kogut, B., 24 (1995) 77
 Walker, W., *see* Pavitt, K., 5 (1976) 11
 Walker, W., *see* Pavitt, K., 22 (1993) 114
 Walker, W.B., The multi-role combat aircraft (MRCA): a case study in European collaboration 2 (1973/74) 280
 Walker, W.B., MRCA: Reply to Professor Saul 3 (1974/75) 375
 Walker, W.B., MRCA: reply to Mr. Greenwood 4 (1975) 211
 Wallmark, J.T. and D.H. McQueen, One hundred major Swedish technical innovations from 1945-1980 20 (1991) 325
 Walsh, V., Invention and innovation in the chemical industry: Demand-pull or discovery-push 13 (1984) 211
 Walsh, V., Invention and innovation in the chemical industry: Demand-pull or discovery-push? 22 (1993) 115
 Walsh, V., Design, innovation and the boundaries of the firm 25 (1997) 509
 Walsh, V., *see* Green, K., 28 (1999) 775
 Walters, C.F., *see* Geroski, P.A., 26 (1998) 33
 Wang, J.C., Cooperative research in a newly industrialized country: Taiwan 23 (1994) 697
 Watanabe, C., Trends in the substitution of production factors of technology - empirical analysis of the inducing impact of the energy crisis of Japanese industrial technology 21 (1992) 481
 Watanabe, C., Systems option for sustainable development - effect and limit of the Ministry of International Trade and Industry's efforts to substitute technology for energy 28 (1999) 719
 Watkins, D., *see* Rubenstein, A.H., 6 (1977) 324
 Watkins, T.A., A technological communications costs models of R & D consortia as public policy 20 (1991) 87
 Webster, A., *see* Rappert, B., 28 (1999) 871
 Weeder, P., *see* Bodewitz, H., 17 (1988) 213
 Weinberg, A.M., Response to Burns and Studer's 'Reflections on Alvin M. Weinberg' 5 (1976) 197
 Weingart, P., Science and the media 27 (1998) 869
 Weinstein, O., *see* Gallouj, F., 26 (1998) 537
 Weiss, A.R., *see* Birnbaum-More, P.H., 23 (1994) 249
 Wessels, J.P.H., *see* Van Wijk, R.J., 16 (1987) 39
 Weyand, H., *see* Ahrens, H.J., 2 (1973/74) 94
 White, G.R., *see* Daghighi, A., 23 (1994) 267
 White, M., *see* Lancaster, G.A., 6 (1977) 358
 White, S. and X. Liu, Organizational processes to meet new performance criteria: Chinese pharmaceutical firms in transition 27 (1998) 369
 Wiarda, E., *see* Luria, D., 25 (1997) 233
 Wield, D., *see* Henry, N., 24 (1995) 707
 Willett, A.L., *see* Jones, P.M.S., 6 (1977) 152
 Williams, C., *see* Macdonald, S., 23 (1994) 123
 Williams, R. and D. Edge, The social shaping of technology 25 (1997) 865
 Wilson, A.H., Innovation in a federal state 2 (1973/74) 364
 Wilson, A.H., Canadian science policy: report number four revisited 3 (1974/75) 202
 Wilson, A.H., Innovation in Canada: an update 6 (1977) 276
 Wilson, R., International licensing of technology: empirical evidence 6 (1977) 114
 Windus, M.L. and D.D. Schiffl, Recoupment of government R & D expenditures: issues and practices in the USA 5 (1976) 180
 Wingert, B., *see* Ahrens, H.J., 2 (1973/74) 94
 Winter, S.G., *see* Nelson, R.R., 6 (1977) 36
 Winter, S.G., *see* Nelson, R.R., 22 (1993) 108
 Winter, S.G., *see* Klevorick, A.K., 24 (1995) 185
 Wise, W.S., The role of cost-benefit analysis in planning agricultural R & D programmes 4 (1975) 246
 Wiseman, P., Patenting and inventive activity in synthetic fibre intermediates 12 (1983) 329
 Wm. Souder, E., Field studies with a Q-sort/nominal-group process for selecting R & D projects 4 (1975) 172
 Wonder, E.F., Decision-making and reorganization of the British nuclear power industry 5 (1976) 240
 Wonder, E.F., *see* Morrison, R.W., 8 (1979) 187
 Wortmann, M., Multinationals and internationalization of R & D: New developments in German companies 19 (1990) 175
 Wright, R.W., *see* Birnbaum-More, P.H., 23 (1994) 249
 Wyatt, G., *see* Hare, P., 17 (1988) 315
 Wyatt, S., *see* Collins, P., 17 (1988) 65

- Wyckoff, A., *see* Papaconstantinou, G., 27 (1998) 301
- Wynne, B., The rhetoric of consensus politics: a critical review of technology assessment 4 (1975) 108
- Wynne, B., The rhetoric of consensus politics: a critical review of technology assessment 22 (1993) 116
- Xiaoping, H., *see* Dalpé, R., 21 (1992) 251
- Yamada, K. and E. Otaki, Life cycle of basic research – an approach to the quantitative analysis of R & D activity 1 (1971/72) 352
- Yamada, K., *see* Tsukahara, S., 11 (1982) 133
- Yasuda, H., *see* Odagiri, H., 25 (1997) 1059
- Yinnon, A.T., The shift to knowledge-intensive production in the plastics processing industry and its implications for infrastructure development: three case studies – New York State, England and Israel 25 (1997) 163
- Yinnon, T., *see* Teubal, M., 20 (1991) 381
- Youtie, J., *see* Shapira, P., 25 (1997) 185
- Zander, I., Technological diversification in the multinational corporation – historical evolution and future prospect 26 (1998) 209
- Zander, I., The evolution of technological capabilities in the multinational corporation – dispersion, duplication and potential advantages from multinationality 27 (1998) 17
- Zander, I., How do you mean 'global'? An empirical investigation of innovation networks in the multinational corporation 28 (1999) 195
- Zanfei, A., Patterns of collaborative innovation in the US telecommunications industry after divestiture 22 (1993) 309
- Zeldenrust, S., *see* Leydesdorff, L., 13 (1984) 153
- Zhang, W.B., Government's research policy and economic growth: Capital, knowledge and economic structure 22 (1993) 327
- Zhao, L., *see* Reddy, N.M., 19 (1990) 285
- Zhou, L.Y. and A.H. Rubenstein, Imbedded technology capability (ITC) and the management of science and technology in China: A research note 15 (1986) 49
- Zif, J., D. McCarthy and A. Israeli, Characteristics of business with high R & D investment 19 (1990) 435
- Zirger, B.J., *see* Maidigue, M.A., 14 (1985) 299
- Zitt, M., R. Barré, A. Sigogneau and F. Laville, Territorial concentration and evolution of science and technology activities in the European Union: a descriptive analysis 28 (1999) 545
- Zucker, L.G. and M.R. Darby, Present at the biotechnological revolution: transformation of technological identity for a large incumbent pharmaceutical firm 26 (1998) 429
- Zulueta, M.A., *see* Gómez, I., 24 (1995) 459
- Zuscovitch, E., The economic dynamics of technologies development 15 (1986) 175
- Zuscovitch, E., *see* Teubal, M., 20 (1991) 381
- Zysman, J., Between the market and the state: dilemmas of French policy for the electronics industry 3 (1974/75) 312





ELSEVIER

Research Policy 28 (1999) 953–1027

research
policy

Subject Index Volumes 1–28

Business, industry, agriculture and services

Industries and academic freedom Casimir, G.B.	1 (1971/72) 3
Lessons from the objective appraisal of programmes at the national level – implications of criteria and policy Jones, P.M.S.	1 (1971/72) 10
Priorities for research and technological development Krauch, H.	1 (1971/72) 28
The incorporation of health and welfare risks into technological forecasts Sinclair, C.	1 (1971/72) 40
The importance of graph theory in research planning Czayka, L.	1 (1971/72) 60
Innovation in pharmaceuticals Langrish, J.	1 (1971/72) 89
The appraisal and control of complex development projects Gardner, N.K.	1 (1971/72) 122
The use of technological forecasts in government planning Coenen, R.	1 (1971/72) 156
Innovation in electron-optical instruments – two British case histories Jervis, P.	1 (1971/72) 174
Technology in Europe's future Pavitt, K.	1 (1971/72) 210
The ESTEC project control system Gehriger, H.	1 (1971/72) 274
The regional distribution of research and development (as note) Müller, K. and R. Nejedly	1 (1971/72) 320
The role of co-operative research in British industry Johnson, P.S.	1 (1971/72) 332
Antibiotic technology in agriculture Smart, C.C. and P.K. Marstrand	1 (1971/72) 364
Decision-making in big science – the development of the high-voltage electron microscope Leach, B.	2 (1973/74) 56
A note on the implementation and use of models for R & D planning Näslund, B. and B. Sellsedt	2 (1973/74) 72
A dying debate Koch, C.	2 (1973/74) 88
Priorities in research policy Ahrens, H.J., R. Coenen, L. Czayka, I. Karst, H. Weyand, G. Beker, B. Wingert, H.G. Kruse, H. Krauch, F. Niwa, G. Bechmann, I. v. Berg, G. Brosi and H. Folkers	2 (1973/74) 94
What is the place of research and technological innovations in business planning? Gold, B.	2 (1973/74) 128

Business, industry, agriculture and services •

Nucleonic thickness gauges – a SAPPHO pair Rothwell, R.	2 (1973/74)	144
A behavioural study of international technology transfer between the United States and West Germany Köhler, B.M., A.H. Rubenstein and C.F. Douds	2 (1973/74)	160
The role of communications in technological innovation Rothwell, R. and A.B. Robertson	2 (1973/74)	204
Patent data as a guide to industrial activity Reekie, W.D.	2 (1973/74)	246
The multi-role combat aircraft (MRCA): a case study in European collaboration Walker, W.B.	2 (1973/74)	280
Discussion on principles of organizing applied research and development Løvland, P.	2 (1973/74)	322
R & D, innovation and micro-economic growth: a case study Schott, B. and K. von Grebmer	2 (1973/74)	380
US Government support for civilian technology: economic theory versus political practice Eads, G.	3 (1974/75)	2
The adoption of the SAPPHO method in the Hungarian electronics industry Szakasits, G.D.	3 (1974/75)	18
The 'Hungarian SAPPHO': some comments and comparisons Rothwell, R.	3 (1974/75)	30
Behavioural aspects of research management-a review Blume, S.S.	3 (1974/75)	40
High-voltage electron microscopy in the UK Hirsch, P.B.	3 (1974/75)	78
Science and technology in Sweden: the Fabians versus Europe Dörfer, I.N.H.	3 (1974/75)	134
Assessing research output and momentum Faust, R.E.	3 (1974/75)	156
Some characteristic aspects of science policy in the Federal Republic of Germany Lübbe, H.	3 (1974/75)	172
The roles of science in technological innovation Gibbons, M. and R. Johnston	3 (1974/75)	220
SAPPHO updated – project SAPPHO phase II Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend	3 (1974/75)	258
The Indian patent system and indigenous R & D Joshi, S.S., J.V. Rajan and S.K. Subramanian	3 (1974/75)	292
Between the market and the state: dilemmas of French policy for the electronics industry Zysman, J.	3 (1974/75)	312
Innovation in industry: the state and results of recent economic research in western European countries except F.R. Germany Ray, G.F.	3 (1974/75)	338
MRCA: Comment on the article by W.B. Walker Saul, S.B.	3 (1974/75)	373
MRCA: Reply to Professor Saul Walker, W.B.	3 (1974/75)	375
Japanese technology policy: achievements and perspectives Long, T.D.	4 (1975)	2
Service cost: an approach to technological policy Baruch, J.J.	4 (1975)	46
Process innovations and improvements as a determinant of the competitive position in the international plastic market Schott, B. and W. Müller	4 (1975)	88
Innovations led expansion: the shipbuilding case Al-Timimi, W.	4 (1975)	160
Field studies with a Q-sort/nominal-group process for selecting R & D projects Wm. Souder, E.	4 (1975)	172
Technological diffusion in the Canadian carpet industry Globberman, S.	4 (1975)	190

• Business, industry, agriculture and services

- Response to Research Policy on article on MRCA 4 (1975) 207
 Greenwood, A.
- MRCA: reply to Mr. Greenwood 4 (1975) 211
 Walker, W.B.
- The state and technological competition in France or Colbertism in the 20th century 4 (1975) 214
 Papon, P.
- Technical change and social need; the case of high-rise flats 4 (1975) 262
 McCutcheon, R.
- Innovation in industry: A discussion of the state-of-the-art and the results of innovation research in German-speaking countries 4 (1975) 312
 Uhlmann, L.
- The productivity of research effort in the US pharmaceutical industry: a statistical approach 4 (1975) 330
 Koenig, M.E.D. and D.J. Gans
- The venture capital market and technological innovation 4 (1975) 380
 Bean, A.S., D.D. Schiffl and M.E. Mogee
- The costs of technological innovation 5 (1976) 2
 Stead, H.
- Government politics towards industrial innovation: a review 5 (1976) 11
 Pavitt, K. and W. Walker
- Public opinion on innovation in France 5 (1976) 106
 Gaudin, M.T.
- West German science policy since the early 1960s: trends and objectives 5 (1976) 116
 Keck, O.
- An educational TV satellite for India: a critical assessment 5 (1976) 158
 Melzer, A.
- Recoupment of government R & D expenditures: issues and practices in the USA 5 (1976) 180
 Windus, M.L. and D.D. Schiffl
- The dominant role of users in the scientific instrument innovation process 5 (1976) 212
 Von Hippel, E.
- Decision-making and reorganization of the British nuclear power industry 5 (1976) 240
 Wonder, E.F.
- The organic chemicals industry of the USSR: a case study in the measurement of comparative technological sophistication by means of kilogram-prices 5 (1976) 302
 Amann, R. and J. Slama
- Market structure and strategies of R & D behavior in the data processing market – theoretical thoughts and empirical findings 5 (1976) 334
 Hoffmann, W.D.
- Performance in innovation in the Israeli electronics industry: a case study of biomedical electronics instrumentation 5 (1976) 354
 Teubal, M.N., N. Arnon and M. Trachtenberg
- The RKW: a new approach towards technology transfer. Methods for the promotion of innovation in small- and medium-sized companies 5 (1976) 398
 Rupp, A.
- The super-computer project: a case study in the interaction of science, government and industry in the UK 6 (1977) 2
 Drath, P., M. Gibbons and R. Johnston
- In search of useful theory of innovation 6 (1977) 36
 Nelson, R.R. and S.G. Winter
- International licensing of technology: empirical evidence 6 (1977) 114
 Wilson, R.
- Automation in textile machinery 6 (1977) 164
 Catling, H. and R. Rothwell
- Changes in centralization of science 6 (1977) 178
 Inhaber, H.
- Technological choice and socio-economic imperative: a case study of textile technologies in India 6 (1977) 202
 Joshi, N.
- Government policies for technological innovation: criteria for an experimental approach 6 (1977) 214
 Robbins, M.D. and J.G. Milliken

- Rejoinder to 'Government policies for technological innovation' by Robbins and Milliken
Colton, R.M. 6 (1977) 241
- Reply to Dr. Colton's rejoinder 6 (1977) 252
- Robbins, M.D. and J.G. Milliken
- Analysis of R & D failure 6 (1977) 254
- Spiller, P.T. and M. Teubal
- Innovation in Canada: an update 6 (1977) 276
- Wilson, A.H.
- Growth of an institute 6 (1977) 294
- Hedemark, I. and M. Jul
- Management perceptions of government incentives to technological innovation in England, France, West Germany and Japan 6 (1977) 324
- Rubenstein, A.H., C.F. Douds, H. Geschka, T. Kawase, J.P. Miller, R. Saintpaul and D. Watkins
- Technological innovation in developing countries: a review of the literature 6 (1977) 374
- Crane, D.
- Defense department payment for company financed R & D 6 (1977) 396
- Reppy, J.
- Government programs and the growth of high technology industries 7 (1978) 2
- Schnee, J.E.
- Scientific and political orientation of American scientists 7 (1978) 26
- Anand, H.R. and J. Haberer
- Notes on the inter-industrial flow of technology in post-war Britain 7 (1978) 48
- Bresson, C. and J. Townsend
- R & D in Israeli industry 7 (1978) 62
- Blumenthal, T.
- Comment on 'Automation in textile machinery' 7 (1978) 99
- Bayliss, C.R.
- A new push of basic innovations? 7 (1978) 108
- Mensch, G.
- Government influence on the process of innovation in Europe and Japan 7 (1978) 124
- Allen, Th.J., J.M. Utterback, M.A. Sirbu, N.A. Ashford and J.H. Hollomon
- Toward a conceptual framework of the process of organized technological innovation within the firm 7 (1978) 150
- Baker, N.R. and D.J. Sweeney
- Government aid for the development of innovative technology: Lessons from the French 7 (1978) 176
- Sirbu Jr., M.A.
- Canada-India nuclear cooperation 7 (1978) 220
- Bindon, G. and S. Mukerji
- A customer-active paradigm for industrial product idea generation 7 (1978) 240
- Von Hippel, E.
- Government research for industry: Recent British Developments 7 (1978) 268
- Gummett, P. and M. Gibbons
- Duopoly in the scientific instrument industry: The milk analyser case 7 (1978) 292
- Robertson, A. and M. Frost
- Rates of invention: International patent comparisons 7 (1978) 324
- Schiffel, D. and C. Kitti
- Information inputs to new product planning and development 7 (1978) 342
- Holt, K.
- The determinants of the potential effectiveness of government-supported industrial research institutes 7 (1978) 362
- Toren, N. and D. Galai
- The development of an innovation: The case of Porvair 8 (1979) 2
- Gibbons, M. and D. Littler
- Corporate decision-making for allocations to research and development 8 (1979) 46
- Kay, N.M.
- Research policy and industrial material 8 (1979) 80
- Ray, G.F.
- The influence of market demand upon innovation: A critical review of some recent empirical studies 8 (1979) 102
- Mowery, D.C. and N. Rosenberg

• Business, industry, agriculture and services

Public bodies as entrepreneurs Cannon, C.M. and K. Grossfield	8 (1979) 154
Recent trends in research and development in the United Kingdom Bosworth, D.L.	8 (1979) 164
Canada-India nuclear cooperation: A rebuttal Morrison, R.W. and E.F. Wonder	8 (1979) 187
Canada-India nuclear cooperation: A rejoinder to a rebuttal Bindon, G. and S. Mukerji	8 (1979) 191
European policies on space science and technology 1960-1978 Schwarz, M.	8 (1979) 204
Influence of technology on science: A comment on some experiences at IBM research Gazis, D.C.	8 (1979) 244
Setting research priorities Ross, H.H., W.S. Lyon and W.D. Shults	8 (1979) 260
Innovation management for an industrial product Horsmans, J.W.	8 (1979) 274
An analysis of the role of users in the total R & D portfolios of scientific instrument firms Spital, F.C.	8 (1979) 284
The local government market as a stimulus to industrial innovation Roessner, J.D.	8 (1979) 340
R & D strategy in the U.S. pharmaceutical industry Schnee, J.D.	8 (1979) 364
Centres of decision in French science policy: The contrasting influences of scientific experts and administrators Papon, P.	8 (1979) 384
Dimensions of R & D location in the United States Malecki, E.J.	9 (1980) 2
Developing countries as exporters of industrial technology Lall, S.	9 (1980) 24
The economic effects of innovation: Some calculations for The Netherlands Spaa, J.H.	9 (1980) 54
The origin and direction of industrial R & D in India Desai, A.V.	9 (1980) 74
The power and the glory: A note on patents and scientific authors Macioti, M.	9 (1980) 104
Organizational aspects of Nigeria's research system Clark, N.	9 (1980) 148
An analysis of factors influencing the utilization of contract research in a developing country, Korea Lee, J. and A.H. Rubenstein	9 (1980) 174
A Viewpoint on innovation and the chemical industry Colombo, U.	9 (1980) 204
A study of technical innovation in Polish industry Poznański, K.	9 (1980) 232
Stages of development of industrial technology in a developing country: a model Kim, L.	9 (1980) 254
Government policy and technical choice in the West German reactor programme Keck, O.	9 (1980) 302
The State and technical innovation: A case study of the electrical vehicle in France Callon, M.	9 (1980) 358
The transfer of U.S. technology abroad Bosworth, D.L.	9 (1980) 378
Alternative conceptions of technology Sahal, D.	10 (1981) 2
Evolutionary behavior of socio-technical systems Bonen, Z.	10 (1981) 26
The impact of R & D spending on the foreign sales of new Canadian industrial products McGuinness, N.W. and B. Little	10 (1981) 78

- Commercial innovations from university faculty 10 (1981) 108
 Roberts, E.B. and D.H. Peters
- Towards an understanding of technical change in semi-industrialized countries 10 (1981) 127
 Teitel, S.
- Production of microbial protein: A study of the development and introduction of a new technology 10 (1981) 148
 Marstrand, P.K.
- Transfer of indigenous technology - some Indian cases 10 (1981) 172
 Rajan, J.V., N.D. Seth, S.K. Subramanian, A.K. Chakrabarti and A.H. Rubenstein
- Technology and economic growth: The case of Japan 10 (1981) 222
 Peck, M.J. and A. Goto
- Scientists as consultants to industry in a developing country: An analysis of their roles and economic effectiveness. 10 (1981) 244
 Avriel, D.
- Non-price factors in the export competitiveness of agricultural engineering products 10 (1981) 260
 Rothwell, R.
- A cognitive approach to science policy 10 (1981) 294
 Rip, A.
- Science, technology, and regional economic development: Review and prospects 10 (1981) 312
 Malecki, E.J.
- The content of productivity growth in Swedish manufacturing 10 (1981) 336
 Carlsson, B.
- The present status and problems of impact research in technology policy: A case study on the federal program for funding research and development personnel in Germany 10 (1981) 356
 Meyer-Krahmer, F.
- The farm factor and the nature of technological innovation 10 (1981) 368
 Sahal, D.
- R & D patenting and innovative activities: A statistical exploration 11 (1982) 33
 Pavitt, K.
- Some determinants of cost distribution in the process of technological innovations 11 (1982) 83
 Kamin, J.Y., I. Bijaoui and R. Horesh
- Appropriability of innovation benefit as a predictor of the source of innovation 11 (1982) 95
 Von Hippel, E.
- Influential factors in manufacturing innovation 11 (1982) 117
 Bessant, J.R.
- Technological paradigms and technological trajectories: A suggested interpretation of the determinants and directions of technical change 11 (1982) 147
 Dosi, G.
- Technological change in the Norwegian whaling industry: A case study in the use of patent-statistics as a technology indicator 11 (1982) 163
 Basberg, B.L.
- The commercialization of federally sponsored technological innovations 11 (1982) 173
 Ettlie, J.E.
- Characteristics of research and development performing firms in Canadian manufacturing 11 (1982) 193
 Ranga Chand, U.K.
- The climate for innovation in industry: the role of management attitudes and practices in consumer electronics 11 (1982) 209
 Rosenbloom, R.S. and W.J. Abernathy
- Inter-industry technology flows in the United States 11 (1982) 227
 Scherer, F.M.
- International comparisons of R & D effort: The case of the Canadian pharmaceutical industry 11 (1982) 247
 Palda, K.S. and B. Pazderka
- An assessment of the benefits of the diffusion of an innovation 11 (1982) 261
 Reekie, W.D.
- Government policy, innovation and economic growth: Lessons from a study of satellite communications 11 (1982) 271
 Teubal, M. and E. Steinmueller
- Innovation and technical change: A case study of the U.K. tractor industry 1957-1977 11 (1982) 289
 Gibbons, M., R. Coombs, P. Saviotti and P.C. Stubbs
- The role of government in supporting measurement standards for high-technology industries 11 (1982) 311
 Tasse, G.

• Business, industry, agriculture and services

- Farmers' financing of agricultural research in Israel
Gelb, E. and Y. Kislev 11 (1982) 321
- The R & D performance through time of young, high-technology firms: Methodology and an illustration
Teubal, M. 11 (1982) 333
- R & D effort and US exports and foreign affiliate production of manufactures
Glick, R. 11 (1982) 359
- Research priorities and science policy objectives for the management of soils in arid lands
Hallsworth, E.G. 11 (1982) 373
- A review of literature and hypotheses on new technology based firms
Bollinger, L., K. Hope and J.M. Utterback 12 (1983) 1
- A bibliometric analysis of pharmaceutical research
Koenig, M.E.D. 12 (1983) 15
- Monitoring and control in agricultural research systems: Maize in Northern India
Biggs, S.D. 12 (1983) 37
- Technological balance of payments and international competitiveness: The case of the Federal Republic of Germany
Horn, E.-J. 12 (1983) 91
- R & D price indexes and real R & D expenditures in the United States
Mansfield, E., A. Romeo and L. Switzer 12 (1983) 105
- The influence of Ministry of Defence funding on semiconductor research and development in the United Kingdom
Dickson, K. 12 (1983) 113
- University-to-industry advanced technology transfer: A case study
Goldhor, R.S. and R.T. Lund 12 (1983) 121
- Impacts of government incentives towards industrial innovation: An analysis of the federal programme funding R & D personnel in the Federal Republic of Germany
Meyer-Krahmer, F., G. Gielow and U. Kuntze 12 (1983) 153
- The measurement of goal attainment of governmental R & D support
Brockhoff, K. 12 (1983) 171
- Innovation, market structure and government policy in the American semiconductor industry: A survey
Mowery, D.C. 12 (1983) 183
- Transferring technology to the small manufacturing firm: A study of technology transfer in three countries
Allen, T.J., D.B. Hyman and D.L. Pickney 12 (1983) 199
- Innovation behavior of small and medium-scale firms: Reform possibilities for R & D policy-making on the federal state level in the Federal Republic of Germany
Bruder, W. 12 (1983) 213
- Foreign patenting in the U.S. as a technology indicator
Basberg, B.L. 12 (1983) 227
- Policy implications of the innovation process in the U.S. food sector
Ettlie, J.E. 12 (1983) 239
- Foreign technology in the Spanish economy: An analysis of the recent evolution
Molero, J. 12 (1983) 269
- The role of science in technology transfer
Moravcsik, M.J. 12 (1983) 287
- Route 128: The development of a regional high technology economy
Dorfman, N. 12 (1983) 299
- Patenting and inventive activity in synthetic fibre intermediates
Wiseman, P. 12 (1983) 329
- The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation
de Solla Price, D. 13 (1984) 1
- Tax incentives for R & D: A critical evaluation
Bozeman, B. and A.N. Link 13 (1984) 21
- Promoting technological capability: An analysis in the capital goods sector: The case of Singapore
Fransman, M. 13 (1984) 33
- Government and its utilization by industry
Alam, G. and J. Langrish 13 (1984) 55
- The innovative activities of researchers in Italian industry
Sirilli, G. 13 (1984) 63

- Pricing research and development services in the USSR 13 (1984) 85
Bornstein, M.
- Interpersonal communication patterns among Swedish and Boston-area entrepreneurs 13 (1984) 101
Leonard-Barton, D.
- Foreign patent flows to and from the United Kingdom 13 (1984) 115
Bosworth, D.L.
- International technology transfers and international technology payments: Definitions, measurement and firms' behaviour 13 (1984) 125
Madeuf, B.
- A theoretical approach to the construction of technological output indicators 13 (1984) 141
Saviotti, P.P. and J.S. Metcalfe
- Technological change and trade unions 13 (1984) 153
Leydesdorff, L. and S. Zeldenrust
- Governmental innovation support in Norway: Micro- and macro-level effects 13 (1984) 165
Grønhaug, K. and T. Fredriksen
- Recent results in measuring innovation output 13 (1984) 175
Meyer-Krahmer, F.
- Invention and innovation in the chemical industry: Demand-pull or discovery-push 13 (1984) 211
Walsh, V.
- Commercializing solar technology: The government role 13 (1984) 235
Roessner, J.D.
- Technological innovation and industrial research in Japan 13 (1984) 285
Oshima, K.
- India's technological capability in the capital goods sector: The case of Singapore 13 (1984) 303
Desai, A.V.
- Sectoral patterns of technical change: Towards a taxonomy and a theory 13 (1984) 343
Pavitt, K.
- Innovation: Mapping the winds of creative destruction 14 (1985) 3
Abernathy, W.J. and K.B. Clark
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 14 (1985) 23
Jasanoff, S.
- The technology policy experiment as policy research tool 14 (1985) 39
Tassey, G.
- A graphical method for relating multiple socio-economic goals to research and development in agriculture 14 (1985) 53
Spharim, I. and N.G. Seligman
- Technological guideposts and innovation avenues 14 (1985) 61
Sahal, D.
- Knowledge accumulation and technological advance: The case of synthetic rubber 14 (1985) 83
Cooray, N.
- The effects of R & D tax credits and allowances in Canada 14 (1985) 97
Mansfield, E. and L. Switzer
- The impact of scientific research on UK agricultural productivity 14 (1985) 109
Doyle, C.J. and M.S. Ridout
- Research activity, output growth, and productivity increase in Japanese manufacturing industries 14 (1985) 117
Odagiri, H.
- Towards a scale for measuring technology in new product innovations 14 (1985) 151
Souder, W.E. and P. Shrivastava
- Market structure and technology: Their interdependence in Indian industry 14 (1985) 161
Desai, A.V.
- The significance of technological change in medicine: An introduction 14 (1985) 173
Blume, S.S.
- Innovation in pharmaceuticals: Industrial R & D in the early twentieth century 14 (1985) 179
Liebenau, J.
- The influence of health service procurement policy on research and development in the UK medical capital equipment industry 14 (1985) 205
Hutton, J. and K. Hartley

• Business, industry, agriculture and services

- CT scanning and ultrasonography: A comparison of two lines of development and dissemination
Berggren, U. 14 (1985) 213
- Scientific evidence and the abandonment of medical technology: A study of eight drugs
Finkelstein, S.N. and D.L. Gilbert 14 (1985) 225
- The interaction of design hierarchies and market concepts in technological evolution
Clark, K.B. 14 (1985) 235
- Venture finance, small firms and public policy in the UK
Rothwell, R. 14 (1985) 253
- Project planning in Soviet R & D
Fortescue, S. 14 (1985) 267
- Demand structure and technological change: The case of the European semiconductor industry
Malerba, F. 14 (1985) 283
- The new product learning cycle
Maidigue, M.A. and B.J. Zirger 14 (1985) 299
- The flow of technological innovation in an R & D department
de Meyer, A.C.L. 14 (1985) 315
- Technical change and the industrial district: The role of interfirm relations in the growth and transformation of the ceramic tile industry in Italy
Russo, M. 14 (1985) 329
- The impact of R & D on productivity increase in Japanese manufacturing companies
Odagiri, H. and H. Iwata 15 (1986) 13
- Schumpeterian innovation and entrepreneurs in capitalism: A case study of the U.S. biotechnology industry
Kenney, M. 15 (1986) 21
- Imbedded technology capability (ITC) and the management of science and technology in China: A research note
Zhou, L.Y. and A.H. Rubenstein 15 (1986) 49
- The war on poverty and social science research 1965-1980
Haveman, R. 15 (1986) 53
- Energy prices and induced innovation
Lichtenberg, F.R. 15 (1986) 67
- Technological innovation in a research laboratory in India: A case study
Chaudhuri, S. 15 (1986) 89
- The process of technology transfer to the new biomedical and pharmaceutical firm
Roberts, E.B. and O. Hauptman 15 (1986) 107
- Innovation policy in an open economy: A normative framework for strategic and tactical issues
Justman, M. and M. Teubal 15 (1986) 121
- The international diffusion of new information technologies
Antonelli, C. 15 (1986) 139
- Towards a theory of innovation in services
Barras, R. 15 (1986) 161
- The economic dynamics of technologies development
Zuscovitch, E. 15 (1986) 175
- Technological intensity: Concept and measurement
Palda, K.S. 15 (1986) 187
- The distinctive research of the individual inventor
Macdonald, S. 15 (1986) 199
- Investment and innovation over the long wave
Moss, S. 15 (1986) 211
- Joint R & D: The case of microelectronics and Computer Technology Corporation
Peck, M.J. 15 (1986) 219
- Theoretically sound: practically useless? Government grants for industrial R & D in Australia
Macdonald, S. 15 (1986) 269
- Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy
Teece, D.J. 15 (1986) 285
- Toward a global agricultural research system: A personal view
Ruttan, V.W. 15 (1986) 307
- Problems of adoption and adaptation of energy-conserving innovations in UK beverage and dairy industries
Fawkes, S.D. and J.K. Jacques 16 (1987) 1

- Communication within a national R & D system: A study of iron and steel in Sweden
Höglund, L. and O. Persson 16 (1987) 29
- Focussing a co-operative industrial research institute: A case study
Van Wijk, R.J. and J.P.H. Wessels 16 (1987) 39
- Is Western Europe losing the technological race?
Patel, P. and K. Pavitt 16 (1987) 59
- A technology gap approach to why growth rates differ
Fagerberg, J. 16 (1987) 87
- The impact of technological innovation on international trade patterns: The evidence reconsidered
Soete, L. 16 (1987) 101
- Patents and the measurement of technological change: A survey of the literature
Basberg, B.L. 16 (1987) 131
- Patents as indicators of corporate technological strength
Narin, F., E. Noma and R. Perry 16 (1987) 143
- Patents and inventors: An empirical study
Sirilli, G. 16 (1987) 157
- A study of innovation in the pesticide industry: Analysis of the innovation record of an industrial sector
Achilladelis, B., A. Schwarzkopf and M. Cines 16 (1987) 175
- R & D laboratory classification and public policy: The effect of environmental context on laboratory behavior.
Crow, M. and B. Bozeman 16 (1987) 229
- The distribution of benefits from technical change among classes of consumers and producers: An ex ante analysis of
beans in Brazil
Pachico, D., J.K. Lynam and P.G. Jones 16 (1987) 279
- Cooperation between rivals: Informal know-how trading
Von Hippel, E. 16 (1987) 291
- Innovation can be taught
Buijs, J.A. 16 (1987) 303
- Innovation can be taught
Buijs, J.A. 16 (1987) 303
- University-industry relationships in the life sciences: Implications for students and post-doctoral fellows
Gluck, M.E., D. Blumenthal and M.A. Soto 16 (1987) 327
- Social assessment of workplace technology - some experiences with the German program 'Humanization of work'
Dankbaar, B. 16 (1987) 337
- Sectoral patterns of production and use of innovations in the UK: 1945-1983
Robson, M., J. Townsend and K. Pavitt 17 (1988) 1
- Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980
Utterback, J.M., M. Meyer, E. Roberts and G. Reigberger 17 (1988) 15
- Federally supported commercial technology development: Solar thermal technologies 1970-1982
Gates, W. 17 (1988) 27
- An exploration of production problems in the initial commercial manufacture of products
Langowitz, N.S. 17 (1988) 43
- Implementation: A key issue in manufacturing technology: The need for a field of study
Voss, C.A. 17 (1988) 55
- Information, variety and entropy in technoeconomic development
Saviotti, P.P. 17 (1988) 89
- The 'incentive subsidy' for government support of private R & D
Fölster, S. 17 (1988) 105
- Venture capital-financed innovation and technological change in the USA
Florida, R.L. and M. Kenney 17 (1988) 119
- Bibliometric analysis of U.S. Pharmaceutical industry research performance
Narin, F. and R.P. Rozek 17 (1988) 139
- The commercial application of a scientific discovery: The case of the hybridoma technique
Mackenzie, M., A. Cambrosio and P. Keating 17 (1988) 155
- A theory of white elephants: Asymmetric information in government support for technology
Keck, O. 17 (1988) 187
- Towards a cognitive model for technology-oriented R & D progress
Bodewitz, H., G. de Vries and P. Weeder 17 (1988) 213

• Business, industry, agriculture and services

- Towards the 'cognitive management' of a research institute
Courtial, J.P. and J.C. Remy 17 (1988) 225
- Biotechnology development in India: Some policy issues
Lachke, A.H., J.V. Rajan, M.C. Srinivasan and S.A. Tambe 17 (1988) 235
- Implementation as mutual adaptation of technology and organization
Leonard-Barton, D. 17 (1988) 251
- The value of technology: A survey of the Chinese theoretical debate and its policy implications
Baark, E. 17 (1988) 269
- Research evaluation in the U.S. Forest Service: Opinions of research managers
Jakes, P.J. 17 (1988) 283
- The interpretation and measurement of R & D intensity - A note
Hughes, K. 17 (1988) 301
- The contribution of university research to the technological innovation of the German economy: Societal autodynamic and political guidance
Schimank, U. 17 (1988) 329
- Linking university and industry: An organizational experience in Mexico
Waissbluth, M., G. Cadena and J.L. Solleiro 17 (1988) 341
- Islands, archipelagoes and continents: Progress on the road to computer integrated manufacturing
Bessant, J. and B. Haywood 17 (1988) 349
- Government and the decentralization of R & D
Lacroix, R. and F. Martin 17 (1988) 363
- Innovation expenditures and the role of government in Belgium
Holemans, B. and L. Sleuwaegen 17 (1988) 375
- Full circle: The diffusion of technology
Ray, G.F. 18 (1989) 1
- Policy options for government funding of advanced technology - the case of international collaboration in the European Telecommunication Satellite Programme
Müller, J. 18 (1989) 33
- An evolutionary pattern of innovation diffusion. The case of flexible automation
Cainarca, C.C., M.G. Colombo and S. Mariotti 18 (1989) 59
- Characterizing the 'technological position' of firms, with application to quantifying technological opportunity and research spillovers
Jaffe, A.B. 18 (1989) 87
- Public support for civil R & D in the UK: Limitations of recent policy debate
Smith, K. 18 (1989) 99
- Tax incentives and R & D spending: A review of the evidence
Cordes, J.J. 18 (1989) 119
- Regularities in the growth of high technology industries in regions
Eto, H. and M. Fujita 18 (1989) 135
- Knowhow trading as economic exchange
Carter, A.P. 18 (1989) 155
- Harnessing the capabilities of CIM: The critical role of senior management
Gold, B. 18 (1989) 173
- The diffusion of industrial robots in Japan and the United States
Mansfield, E. 18 (1989) 183
- A comparison of Census/NSF F&D data vs. Compustat R & D data in a financial decision-making model
Bean, A.S. and J.B. Guerard Jr. 18 (1989) 193
- Corporate strategy in the international semiconductor industry
Hobday, M. 18 (1989) 225
- Measuring the technological intensity of the industrial sector: A methodological and empirical approach
Felsenstein, D. and R. Bar-El 18 (1989) 239
- The role of technological expectations in a mixed model of international diffusion process innovations: The case of open-end spinning rotors
Antonelli, C. 18 (1989) 273
- U.S. agricultural research deflators 1890-1985
Pardey, P.G., B. Craig and M.L. Hallaway 18 (1989) 289

- Evaluation of government innovation programs: Introduction
Roessner, J.D. 18 (1989) 309
- Evaluations of innovation programs in selected European countries 18 (1989) 313
Meyer-Krahmer, F. and P. Montigny
- Nordic experiences of the evaluation of technical research and development 18 (1989) 333
Ormala, E.
- Evaluating government innovation programs: Lessons from the U.S. experience 18 (1989) 343
Roessner, J.D.
- Japanese-style evaluation systems for R & D projects: The MITI experience 18 (1989) 361
Tanaka, M.
- Evaluations of innovation programs in selected European countries 18 (1989) 379
McKeon, R. and J.A. Ryan
- The dynamics of technological innovation: The case of the chemical industry 19 (1990) 1
Achilladelis, B., A. Schwarzkopf and M. Cines
- Managing innovation in multi-technology corporations 19 (1990) 35
Granstrand, O. and S. Sjölander
- An exploration of the science base of recent technology 19 (1990) 61
Van Vianen, B.G., H.F. Moed and A.F.J. Van Raan
- Product tying and innovation in U.S. wire preparation equipment 19 (1990) 83
Vanderwerf, P.A.
- Non-linear learning in large technological firms: Period four implies chaos 19 (1990) 97
Meyers, P.W.
- U.S. technological leadership: Where did it come from and where did it go? 19 (1990) 117
Nelson, R.R.
- The location and organisation of research and development: New horizons 19 (1990) 133
Howells, J.
- The cost of commercializing energy inventions 19 (1990) 147
Brown, M.A.
- Issues on measuring industrial R & D 19 (1990) 157
Lichtenberg, F.R.
- Why do firms do basic research (with their own money)? 19 (1990) 165
Rosenberg, N.
- Multinationals and internationalization of R & D: New developments in German companies 19 (1990) 175
Wortmann, M.
- Capitalism as an engine of progress 19 (1990) 193
Nelson, R.R.
- Interactive innovation in financial and business services: The vanguard of the service revolution 19 (1990) 215
Barras, R.
- Innovation and productivity: An analysis of the chemical, textiles and machine tool industries in the U.S. 19 (1990) 257
Chakrabarti, A.K.
- Product use and product improvement 19 (1990) 271
Habermeier, K.F.
- International technology transfer: A review 19 (1990) 285
Reddy, N.M. and L. Zhao
- Transputers and transputer-based parallel computers: Sociotechnical constituencies and the build-up of British-European capabilities in information technologies 19 (1990) 309
Molina, A.H.
- Universities as engines of R & D-based economic growth: They think they can 19 (1990) 335
Feller, I.
- The commercialization of government-sponsored technologies: Canadian evidence 19 (1990) 369
Bhanich Supapol, A.
- Between accommodation and orchestration: The implementation of the science policy priority for biotechnology in the Netherlands 19 (1990) 379
Nederhof, A.J.
- Demand and innovation: Schmookler re-examined 19 (1990) 387
Kleinknecht, A. and B. Verspagen

• Business, industry, agriculture and services

- Task partitioning: An innovation process variable
Von Hippel, E. 19 (1990) 407
- The behavior of the innovative firm: Relations to the environment
Amendola, M. and S. Bruno 19 (1990) 419
- Characteristics of business with high R & D investment
Zif, J., D. McCarthy and A. Israeli 19 (1990) 435
- The United States, Japan and the changing technological balance
Davidson Frame, J. and F. Narin 19 (1990) 447
- Utility of bibliometric analysis for research policy: A case study of Spanish research in Neuroscience
Gómez, I., E. Sanz and A. Méndez 19 (1990) 457
- The diffusion of synthetic materials in the automobile industry: Towards a major breakthrough?
Amendola, G. 19 (1990) 485
- Rethinking the telecommunication infrastructure. The new 'black box'
Mansell, R. 19 (1990) 501
- Morphological analysis, diffusion and lock out of technologies: Ferrous casting in France and the FRG
Foray, D. and A. Grübler 19 (1990) 535
- University-industry relationship: How does the Belgian academic community feel about it?
Van Dierdonck, R., K. Debakere and B. Engelen 19 (1990) 551
- Academic research and industrial innovation
Mansfield, E. 20 (1991) 1
- The individual inventor and the role of entrepreneurship: A survey of the Canadian evidence
Amesse, F., C. Desranleau, H. Etemad, Y. Fortier and L. Seguin-Dulude 20 (1991) 13
- A technological communications costs models of R & D consortia as public policy
Watkins, T.A. 20 (1991) 87
- What makes basic research economically useful?
Pavitt, K. 20 (1991) 109
- Guidelines for successfully transferring government-sponsored innovations
Brown, M.A., L.G. Berry and R.K. Goel 20 (1991) 121
- Resource allocation for agricultural research
Dinar, A. 20 (1991) 145
- Informal technology transfer between firms: Cooperation through information trading
Schrader, S. 20 (1991) 153
- Industrial research and sources of innovation: A cross-industry analysis of Italian manufacturing firms
Napolitano, G. 20 (1991) 171
- The use of a levy/grant system as an alternative to tax based incentives to R & D
Stoneman, P. 20 (1991) 195
- Using academic technology: Transfer methods and licensing incidence in the commercialization of American diagnostics imaging equipment research, 1954-1988
Mitchell, W. 20 (1991) 203
- The governance of innovation: Vertical integration and collaborative arrangements in the biotechnology industry
Pisano, G.P. 20 (1991) 237
- Direct validation of citation counts as indicators of industrially important patents
Albert, M.B., D. Avery, F. Narin and P. McAllister 20 (1991) 251
- Technical and political change in basic research: The case of the European X-Ray Observatory Satellite
Barry, A. 20 (1991) 261
- The technological base of the new enterprise
Roberts, E.B. 20 (1991) 283
- Private research and public benefit: The private seed industry for sorghum and pearl millet in India
Pray, C.E., S. Ribeiro, R.A.E. Mueller and P.P. Rao 20 (1991) 315
- One hundred major Swedish technical innovations from 1945-1980
Wallmark, J.T. and D.H. McQueen 20 (1991) 325
- The functions of technology infrastructure in a competitive economy
Tassey, G. 20 (1991) 345
- Networks of innovators: A review and introduction to the issue
De Bresson, C. and F. Amesse 20 (1991) 363
- Networks and market creation
Teubal, M., T. Yinnon and E. Zuscovitch 20 (1991) 381

- The secrets of industry are in the air: Industrial cooperation and the organizational dynamics of the innovative firm
Foray, D. 20 (1991) 393
- Flexibility, hierarchy and regional development: The changing structure of industrial production systems and their forms of governance in the 1990s
Storper, M. and B. Harrison 20 (1991) 407
- The origins and dynamics of production networks in Silicon Valley
Saxenian, A. 20 (1991) 423
- The aerospace-electronics industrial complex of Southern California: The formative years 1940-1960
Scott, A.J. 20 (1991) 439
- There are two sides to every story: Innovation and collaboration within networks of large and small firms
Lawton Smith, H., K. Dickson and S.L. Smith 20 (1991) 457
- Technological discontinuities and flexible production networks: The case of Switzerland and the world watch industry
Glasmeier, A. 20 (1991) 469
- Public policies for local networks of innovators
Bianchi, P. and N. Bellini 20 (1991) 487
- Networks of innovators: A synthesis of research issues
Freeman, C. 20 (1991) 499
- Patterns of diffusion of electronics technologies: An international comparison with special reference to the Italian case
Arcangeli, F., G. Dosi and M. Moggi 20 (1991) 515
- R & D management in Japanese research institutes
Sakakura, S. and M. Kobayshi 20 (1991) 531
- Innovation policy making in a federalist system: Lessons from the states for US. Federal innovation policy making
Atkinson, R.D. 20 (1991) 559
- More evidence on the undercounting of small firm R & D
Kleinknecht, A. and J.O.N. Reijnen 20 (1991) 579
- Why are Japanese firms so innovative in engineering technology?
Wakasugi, R. 21 (1992) 1
- The influence of technology and demand factors on firm size and industrial structure in the DRAM market 1973-1988
Méthé, D.T. 21 (1992) 13
- A quantitative assessment of interdisciplinary structures in science and technology: Co-classification analysis of energy research
Tijssen, R.J.W. 21 (1992) 27
- Agreements between firms and the technological life cycle model: Evidence from information technologies
Cainarca, G.C., M.G. Colombo and S. Mariotti 21 (1992) 45
- Technological innovation as a gateway to entry: The case of the telecommunications equipment industry
Dowling, M.J. and T.W. Ruefli 21 (1992) 63
- Specialization and size of technological activities in industrial countries: The analysis of patent data
Archibugi, D. and M. Pianta 21 (1992) 79
- Choices in R & D and business portfolio in the electronics industry: What the bibliometric data show
Frumau, C.C.F. 21 (1992) 97
- The U.S. national innovation system: Origins and prospects for change
Mowery, D.C. 21 (1992) 125
- The Southern Californian medical device industry: Innovation, new firm information, and location
De Vet, J.M. and A.J. Scott 21 (1992) 145
- Leading companies and networks of strategic alliances in information technologies
Hagedoorn, J. and J. Schakenraad 21 (1992) 163
- Origins of Japanese industrial research: Pre-war government policy and in-house research at Mitsubishi Nagasaki Shipyard
Fukasaku, Y. 21 (1992) 197
- The management and evaluation of technological programs and the dynamics of techno-economic networks: The case of the AFME
Callon, M., P. Laredo, V. Rabeharisoa, T. Gonard and T. Leray 21 (1992) 215
- Status report: Linkage between technology and science
Narin, F. and D. Olivastro 21 (1992) 237
- The public sector as first user of innovations
Dalpé, R., C. DeBresson and H. Xiaoping 21 (1992) 251

• Business, industry, agriculture and services

- Strategy, structure and performance in product development: Observations from the auto industry
Cusumano, M.A. and K. Nobeoka 21 (1992) 265
- Networks and innovation in a modular system: Lessons from the microcomputer and stereo component industries
Langlois, R.N. and P.L. Robertson 21 (1992) 297
- Explaining downstream innovation by commodity suppliers with expected innovation benefit
Van der Werf, P.A. 21 (1992) 315
- Private and quasi-social rates of return on pharmaceutical R & D in Japan
Odagiri, H. and N. Murakami 21 (1992) 335
- Why do firms cooperate on R & D? An empirical study
Kleinknecht, A. and J.O.N. Reijnen 21 (1992) 347
- Dual technological trees: Assessing the intensity and strategic significance of technological change
Durand, T. 21 (1992) 361
- Scientific instrumentation and university research
Rosenberg, N. 21 (1992) 381
- Competitive advantages from in-house scientific research: The US pharmaceutical industry in the 1980s
Gambardella, A. 21 (1992) 391
- Institutional relationships and technology commercialization: limitations of market-based policy
Aram, J.D., L.H. Lynn and N.M. Reddy 21 (1992) 409
- The German R & D system in transition: Empirical results and prospects of future development
Meyer-Krahmer, F. 21 (1992) 423
- Technology policy for industrialization: An integrative framework and Korea's experience
Kinn, L. and C.J. Dahlman 21 (1992) 437
- Shifting economies: From craft production to flexible systems and software factories
Cusumano, M.A. 21 (1992) 453
- Trends in the substitution of production factors of technology – empirical analysis of the inducing impact of the energy crisis of Japanese industrial technology
Watanabe, C. 21 (1992) 481
- Top managers' education and R & D investment
Scherer, F.M. and K. Huh 21 (1992) 507
- The effect of network structure in industrial diffusion processes
Midgley, D., P.D. Morrison and J.H. Roberts 21 (1992) 533
- Innovation, competition and industry structure
Utterback, J.M. and F. Suárez 22 (1993) 1
- Co-word based science maps of chemical engineering. Part I: Representations by direct multidimensional scaling
Peters, H.P.F. and A.F.J. Van Raan 22 (1993) 23
- Co-word-based science maps of chemical engineering. Part II: Representations by combined clustering and multidimensional scaling
Peters, H.P.F. and A.F.J. Van Raan 22 (1993) 47
- Estimating demand for SDI-related spin-off technologies
Gottinger, H.W. 22 (1993) 73
- Innovation and learning during implementation: a comparison of user and manufacturer innovations
Slaughter, S. 22 (1993) 81
- The influence of market demand upon innovation: A critical review of some recent empirical studies
Mowery, D.C. and N. Rosenberg 22 (1993) 107
- Government policies towards industrial innovation: a review
Pavitt, K. and W. Walker 22 (1993) 114
- Invention and innovation in the chemical industry: Demand-pull or discovery-push?
Walsh, V. 22 (1993) 115
- Adaptability and product development in the Danish plastics industry
Hansen, P.A. and G. Serin 22 (1993) 181
- Do we need a price index for industrial R & D?
Jankowski Jr., J.E. 22 (1993) 195
- Research and development, human capital and trade performance in technology-intensive manufactures: A cross-country analysis
Daniels, P. 22 (1993) 207
- Assessing the performance of European collaborative R & D policy: The case of Eureka
Peterson, J. 22 (1993) 243

- Multinational companies and technological change: Basic traits and taxonomy of the behavior of German industrial companies in Spain 22 (1993) 265
 Molero, J. and M. Buesa
- The dynamics of technological innovation: The sector of antibacterial medicines 22 (1993) 279
 Achilladelis, B.
- Patterns of collaborative innovation in the US telecommunications industry after divestiture 22 (1993) 309
 Zanfei, A.
- Government's research policy and economic growth: Capital, knowledge and economic structure 22 (1993) 327
 Zhang, W.B.
- Estimating the impact of R & D tax credit on strategic groups in the pharmaceutical industry 22 (1993) 337
 McCutchen Jr., W.W.
- Foreign research and developments in Swedish multinationals 22 (1993) 373
 Håkanson, L. and R. Nobel
- Determinants of foreign R & D in Swedish multinationals 22 (1993) 397
 Håkanson, L. and R. Nobel
- Internationalization of R & D - A survey of some recent research 22 (1993) 413
 Granstrand, O., L. Håkanson and S. Sjölander
- Technological learning and entrepreneurial behavior: A taxonomy of the chemical industry in Venezuela 22 (1993) 431
 Pirela, A., R. Rengifo, A. Mercado and R. Arvanitis
- On high tech snobbery 22 (1993) 455
 Van Hulst, N. and B. Olds
- The battle for biotechnology: Scientific and technological paradigms and the management of biotechnology in Britain in the 1980s 22 (1993) 463
 Balmer, B. and M. Sharp
- In search of insights into the generation of techno-economic trends: Micro- and macro-constituencies in the microprocessor industry. 22 (1993) 479
 Molina, A.H.
- Funding for innovation in small firms: The role of government 22 (1993) 507
 Moore, I. and E. Garnsey
- New technology adoption in US telecommunications: The role of competitive pressures and firm-level inducements 22 (1993) 521
 Majumdar, S.K. and S. Venkataraman
- Government influence on process of innovation in Europe and Japan 22 (1993) 101
 Allen, T.J.
- Interactive innovation in financial and business services: The vanguard of the service revolution 22 (1993) 101
 Barras, R.
- Innovation: Mapping the winds of creative destruction 22 (1993) 102
 Abernathy, W.J. and K.B. Clark
- The content of productivity growth in Swedish manufacturing 22 (1993) 102
 Carlsson, B.
- Technological paradigms and technological trajectories 22 (1993) 102
 Dosi, G.
- A technology gap approach to why rates differ 22 (1993) 103
 Fagerberg, J.
- The roles of science in technological innovation 22 (1993) 103
 Gibbons, M. and R. Johnston
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 22 (1993) 104
 Jasanoff, S.
- Government policy and technical choice in the West German Reactor Program 22 (1993) 104
 Keck, O.
- Stages of development of industrial technology in a developing country: A model 22 (1993) 105
 Linsu-Kim, J.
- The diffusion of industrial robots in Japan and the United States 22 (1993) 105
 Mansfield, E.
- Evaluations of innovation programs in selected European countries 22 (1993) 106
 Meyer-Krahmer, F. and P. Motigny
- Patents as indicators of corporate technological strength 22 (1993) 108
 Narin, F., E. Noma and R. Perry

• Business, industry, agriculture and services

- In search of useful theory of innovation 22 (1993) 108
 Nelson, R.R. and S.G. Winter
- The consequences of dissent: Sociological reflections on the controversy of the low-dose effects 22 (1993) 108
 Nowotny, H. and H. Hirsch
- A study of technical innovation in Polish Industry 22 (1993) 109
 Poznanski, K.
- SAPPHO updated - project SAPPPO phase II 22 (1993) 110
 Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend
- Technological guideposts and innovation avenues 22 (1993) 110
 Sahal, D.
- Inter-industry technology flows in the United-States 22 (1993) 111
 Scherer, F.M.
- The innovative activities of researchers in Italian industry 22 (1993) 111
 Sirilli, G.
- The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 22 (1993) 112
 de Solla Price, D.
- Japanese-style evaluation systems for R & D projects: The MITI experience 22 (1993) 112
 Tanaka, M.
- Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy 22 (1993) 112
 Teece, D.J.
- Analysis of R & D failure 22 (1993) 113
 Spiller, P.T. and M. Teubal
- Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980 22 (1993) 113
 Utterback, J.M., M. Meyer, E. Roberts and G. Reitberger
- A patent-based cartography of technology 23 (1994) 1
 Engelsman, E.C. and A.F.J. Van Raan
- Global R & D networks and large-scale innovations: The case of the automobile industry 23 (1994) 27
 Miller, R.
- Contingencies of innovative networks: A case study of successful interfirm R & D collaboration 23 (1994) 47
 Häusler, J., H.W. Hohn and S. Lütz
- Multinational enterprises and the globalization of innovatory capacity 23 (1994) 67
 Dunning, J.H.
- The commercialization of RISC: Strategies for the creation of dominant designs 23 (1994) 89
 Khazam, J. and D.C. Mowery
- The survival of the gatekeeper 23 (1994) 123
 Macdonald, S. and C. Williams
- Measuring national technological performance with patent claims data 23 (1994) 133
 Tong, X. and J.D. Frame
- Fragmented standards and the development of Japan's microcomputer software industry 23 (1994) 143
 Cottrell, T.
- The measurement of technical performance of innovations by technometrics and its impact on established technology indicators 23 (1994) 175
 Grupp, H.
- Linking international technology transfer with strategy and management: a literature commentary 23 (1994) 195
 Cusumano, M.A. and D. Elenkov
- Tracking areas of strategic importance using scientometric journal mappings 23 (1994) 217
 Leydesdorff, L., S. Cozzens and P. Van den Besselaar
- Technological systems and economic policy: the diffusion of factory automation in Sweden 23 (1994) 235
 Carlsson, B. and S. Jacobsson
- How do rivals compete: strategy, technology and tactics 23 (1994) 249
 Birnbaum-More, P.H., A.R. Weiss and R.W. Wright
- Information and innovation: a comprehensive representation 23 (1994) 267
 Daghighi, A. and G.R. White
- Technometric evaluation and technology policy: the case of biodiagnostic kits in Israel 23 (1994) 281
 Frenkel, A., T. Reiss, S. Maital, K. Koschatzky and H. Grupp

- Technological convergence and scope of organizational innovation 23 (1994) 293
 Harianto, F. and J.M. Pennings
- The organization and geography of Japanese R & D: results from a survey of Japanese electronics and biotechnology firms 23 (1994) 305
 Kenney, M. and R. Florida
- American universities and technical advance in industry 23 (1994) 323
 Rosenberg, N. and R.R. Nelson
- National research systems and change: the reaction of the British and German research system to the discovery of High-Tc Superconductors 23 (1994) 357
 Jansen, D.
- Japanese corporations, scientific research and globalization 23 (1994) 375
 Hicks, D., T. Ishizuka, P. Keen and S. Sweet
- Cooperative and competitive behaviors during the process of creative destruction 23 (1994) 385
 Garud, R.
- An empirical study of hybrid forms of governance structure: the case of the telecommunication equipment industry 23 (1994) 395
 Garrette, B. and B. Quelin
- Basic research inside the firm: lessons from an in-depth case study 23 (1994) 413
 Qu  r  , M.
- Institutional variations in problem choice and persistence among scientists in an emerging field 23 (1994) 425
 Debackere, K. and M.A. Rappa
- Exploring the science and technology interface: inventor-author relations in laser medicine research 23 (1994) 443
 Noyons, E.C.M., A.F.J. Van Raan, H. Grupp and U. Schmoch
- Incentives to innovate and the sources of innovation: the case of scientific instruments 23 (1994) 459
 Riggs, W. and E. Von Hippel
- The relationship between science and technology 23 (1994) 477
 Brooks, H.
- Toward a new economics of science 23 (1994) 487
 Dasgupta, P. and P.A. David
- The changing technology of technological change: general and abstract knowledge and the division of innovative labour 23 (1994) 523
 Arora, A. and A. Gambardella
- The continuing, widespread (and neglected) importance of improvements in mechanical technologies 23 (1994) 533
 Patel, P. and K. Pavitt
- The big picture: how (and when and why) the West grew rich 23 (1994) 547
 Engerman, S.L.
- Cardwell's Law and the political economy of technological progress 23 (1994) 561
 Mokyr, J.
- Variation-selection in the innovation of the retractable airplane landing gear: the Northrop 'anomaly' 23 (1994) 575
 Vincenti, W.G.
- Economic growth and the chemical industry 23 (1994) 583
 Landau, R.
- Learning and technical progress in the commuter aircraft industry: an analysis of Embraer's experience 23 (1994) 601
 Frischtak, C.R.
- Complex technology and community: implications for policy and social science. 23 (1994) 613
 Rycroft, R.W. and D.E. Kash
- Markets and organizations as coherent systems of innovations 23 (1994) 627
 Amendola, M. and J.L. Gaffard
- Learning by trying: the implementation of configurational technology 23 (1994) 637
 Fleck, J.
- Managerial efficiency and the Schumpeterian link between size, market structure and innovation revisited 23 (1994) 653
 Bughin, J. and J.M. Jacques
- Compulsory licensing with capital payments as an alternative to grants of monopoly in intellectual property 23 (1994) 661
 Kingston, W.
- Making sense of diversity: public-private sector research linkage in three technologies 23 (1994) 673
 Faulkner, W. and J. Senker
- Cooperative research in a newly industrialized country: Taiwan 23 (1994) 697
 Wang, J.C.

• Business, industry, agriculture and services

- Distribution of growth rates in highly successful Swedish technical innovations
McQueen, D.H. 23 (1994) 713
- How learning by doing is done: problem identification in novel process equipment.
Von Hippel, E. and M.J. Tyre 24 (1995) 1
- Government, globalisation and universities in Japanese biotechnology
Fransman, M. and S. Tanaka 24 (1995) 13
- The hypercube of innovation
Afuah, A.N. and N. Bahram 24 (1995) 51
- Cooperation and entry induction as an extension of technological rivalry
Kogut, B., G. Walker and D.J. Kim 24 (1995) 77
- Building bridges for innovation: the role of consultants in technology transfer
Bessant, J. and H. Rush 24 (1995) 97
- Educational statistics as an indicator of technological activity
Jacobsson, S. and C. Oskarsson 24 (1995) 127
- Technological regimes and innovation in services: the case of the Italian banking industry
Buzzacchi, L., M.G. Colombo and S. Mariotti 24 (1995) 151
- Going global: the use of ICT networks in research and development
Howells, J.R. 24 (1995) 169
- On the sources and significance of interindustry differences in technological opportunities
Klevorick, A.K., R.C. Levin, R.R. Nelson and S.G. Winter 24 (1995) 185
- Strategic technology partnering during the 1980s: trends, networks and corporate patterns in non-core technologies
Hagedoorn, J. 24 (1995) 207
- Explaining the attacker's advantage: technological paradigms, organizational dynamics, and the value network
Christensen, C.M. and R.S. Rosenbloom 24 (1995) 233
- Technological infrastructure policy (TIP): creating capabilities and building markets
Justman, M. and M. Teubal 24 (1995) 259
- Have UK venture capitalists a bias against investment in new technology-based firms?
Murray, G.C. and J. Lott 24 (1995) 283
- R & D consortia in the United States and Japan
Aldrich, H.E. and T. Sasaki 24 (1995) 301
- Discouraging opportunistic behavior in collaborative R & D: A new role for government
Tripsas, M., S. Schrader and M. Sobrero 24 (1995) 367
- Small firms' innovation in two technological settings
Lee, J. 24 (1995) 391
- Do subsidies to cooperative R & D actually stimulate R & D investment and cooperation?
Fölster, S. 24 (1995) 403
- The role of product architecture in the manufacturing firm
Ulrich, K. 24 (1995) 419
- Technological competition, strategies of the firms and the choice of the first users: the case of road guidance technologies
Mangematin, V. and M. Callon 24 (1995) 441
- The Japanese software industry: the 'hub' structure approach
Baba, Y., S. Takai and Y. Mizuta 24 (1995) 473
- Is your firm a creative destroyer? Competitive learning and knowledge flows in the technological strategies of firms
Boisot, M.H. 24 (1995) 489
- Inventive productivity
Narin, F. and A. Breitzman 24 (1995) 507
- Technology integration: Managing technological evolution in a complex environment
Iansiti, M. 24 (1995) 521
- Innovation, networks and vertical integration
Robertson, P.L. and R.N. Langlois 24 (1995) 543
- National priorities in academic research-strategic research and contract in renewable energies
Dalpé, R. and F. Anderson 24 (1995) 563
- A framework for model and product family competition
Uzumeri, M. and S. Sanderson 24 (1995) 583
- External partnering as a response to innovation barriers and global competition in biotechnology
Greis, N.P., M.D. Dibner and A.S. Bean 24 (1995) 609

- Of life cycles real and imaginary: The unexpectedly long old age of optical lithography
Henderson, R. 24 (1995) 631
- Patenting of recombinant proteins: An analysis of tissue plasminogen activator (t-PA) in Europe, The United States and Japan 24 (1995) 645
Thomas, S.M., K. Kimura and J.F. Burke
- Evaluating technology innovation programs: the use of comparison groups to identify impacts 24 (1995) 669
Brown, M.A., T.R. Curlee and S.R. Elliott
- Predicting the most likely diffusion sequence of a new technology through the economy: The case of superconductivity 24 (1995) 685
DeBresson, C.
- Along the road: R & D, society and space 24 (1995) 707
Henry, N., D. Massey and D. Wield
- Asset profiles for technological innovation 24 (1995) 727
Christensen, J.F.
- Managing product families: The case of the Sony Walkman 24 (1995) 761
Sanderson, S. and M. Uzumeri
- Sources of imitation: improving bank process capabilities 24 (1995) 783
McKendrick, D.
- Does new technology adoption pay? Electronic switching patterns and firm-level performance in US telecommunications 24 (1995) 803
Majumdar, S.K.
- The influence of business strategies on technological network activities 24 (1995) 831
Gemünden, H.G. and P. Heydebreck
- Quandaries in the economics of dual technologies and spillovers from military to civilian research and development 24 (1995) 851
Cowan, R. and D. Foray
- A socio-cognitive approach to innovation 24 (1995) 883
Howells, J.A.
- Regional technology coalitions. An essential dimension of national technology policy 24 (1995) 895
Storper, M.
- Managing consistency between product development and public standards evolution 24 (1995) 913
Bailletti, A.J. and J.R. Callahan
- Racing behavior. Technological evolution in the high-end computer industry 24 (1995) 933
Khanna, T.
- Appropriability of technical innovations. An empirical analysis 24 (1995) 981
Harabi, N.
- Internationalization of corporate technology through strategic partnering: an empirical investigation 25 (1997) 1
Duysters, G. and J. Hagedoorn
- Testing a model of technological trajectories 25 (1997) 13
De Marchi, M., G. Napolitano and P. Taccine
- Sources of technical innovation in the network of companies providing chemical process plant and equipment 25 (1997) 25
Hutcheson, P., A.W. Pearson and D.F. Ball
- The role of information in licensing contract design 25 (1997) 43
Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo
- Supplier involvement in automotive component design: are there really large US Japan differences? 25 (1997) 59
Liker, J.K., R.R. Kamath, S. Nazli Wasti and N. Nagamachi
- Linking technology and institutions: the innovation community framework 25 (1997) 91
Lynn, L.H., N.M. Reddy and J.D. Aram
- Reforming Romania's national research system 25 (1997) 107
Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard
- Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 25 (1997) 133
Numagami, T.
- The shift to knowledge-intensive production in the plastics processing industry and its implications for infrastructure development: three case studies - New York State, England and Israel 25 (1997) 163
Yinnon, A.T.
- Evaluating industrial modernization: Introduction to the theme issue 25 (1997) 181
Shapira, P. and J.D. Roessner

• Business, industry, agriculture and services

- Current practices in the evaluation of US industrial modernization programs 25 (1997) 185
Shapira, P., J. Youtie and J.D. Roessner
- Does manufacturing extension matter? An evaluation of the Industrial Technology Service in New York 25 (1997) 215
Oldsman, E.
- Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 25 (1997) 233
Luria, D. and E. Wiarda
- Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 25 (1997) 247
Rosenfeld, S.A.
- The role of institution-building in US industrial modernization programs 25 (1997) 265
Kelley, M.R. and A. Arora
- A measure of federalism: assessing manufacturing technology centers 25 (1997) 281
Sabel, C.F.
- Issues and perspectives on evaluating manufacturing modernization programs 25 (1997) 309
Feller, I., A. Glasmeier and M. Mark
- Effectiveness of R & D subsidies - a sceptical note on the empirical literature 25 (1997) 321
Kauko, K.
- Assessing value-added contributions of university technology business incubators to tenant firms 25 (1997) 325
Mian, S.A.
- R & D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 25 (1997) 337
Penan, H.
- A morphology of Japanese and European corporate research networks 25 (1997) 359
Hicks, D.M., P.A. Isard and B.R. Martin
- The innovation of agrochemicals: regulation and patent protection 25 (1997) 379
Hartnell, G.
- On the classification of industrial R & D 25 (1997) 397
Link, A.N.
- A literature-based innovation output indicator 25 (1997) 403
Coombs, R., P. Narandren and A. Richards
- Intersectoral innovation flows and national technological systems: network analysis for comparing Italy and Germany 25 (1997) 415
Leoncini, R., M.A. Maggioni and S. Montresor
- The evaluation of national performance in selected priority areas using scientometric methods 25 (1997) 431
Leydesdorff, L. and É. Gauthier
- Schumpeterian patterns of innovation are technology-specific 25 (1997) 451
Malerba, F. and L. Orsenigo
- The role of user firms in the innovation of machine tools: The Japanese case 25 (1997) 491
Lee, K.R.
- Design, innovation and the boundaries of the firm 25 (1997) 509
Walsh, V.
- Transaction costs and technological development: the case of the Danish fruit and vegetable industry 25 (1997) 531
Foss, K.
- Innovation and the international diffusion of environmentally responsive technology 25 (1997) 549
Lanjouw, J.O. and A. Mody
- Indicators of technological activities - comparing educational, patent and R & D statistics in the case of Sweden 25 (1997) 573
Jacobsson, S., C. Oskarsson and J. Philipson
- Research and the practice of publication in industries 25 (1997) 587
Godin, B.
- Towards a typological theory of project management 25 (1997) 607
Shenhar, A.J. and D. Dvir
- A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing 25 (1997) 633
Hollenstein, H.
- Patterns of technological change among Spanish innovative firms: the case of the Madrid region 25 (1997) 647
Molero, J. and M. Buesa
- Modelling the persistence of organizations in an emerging field: the case of hepatitis C 25 (1997) 671
Clarysse, B., K. Debackere and M.A. Rappa
- Analyzing literature-based innovation output indicators: The Italian experience 25 (1997) 689
Santarelli, E. and R. Piergiovanni

- Firm size, opportunities for adaptation and in-house R & D activity in developing countries: the case of Indian manufacturing
Kumar, N. and M. Saqib 25 (1997) 713
- Trade policy and learning by doing: the case of semiconductors
Gruber, H. 25 (1997) 723
- Government R & D expenditure and space: empirical evidence from five industrialized countries
Sternberg, R.G. 25 (1997) 741
- Strategies for technological development in South Korea and Taiwan: the case of semiconductors
Chen, C.F. and G. Sewell 25 (1997) 759
- Business strategies in more- and less- innovative firms in Canada
Baldwin, J.R. and J. Johnson 25 (1997) 785
- Evaluation of national R & D projects in Korea
Lee, M., B. Son and K. Om 25 (1997) 805
- The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications.
Moed, H.F. and F.Th. Hesselink 25 (1997) 819
- 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration
Lee, Y.S. 25 (1997) 843
- The social shaping of technology
Williams, R. and D. Edge 25 (1997) 865
- Profile of public laboratories, industrial partnerships and organisation of R & D: the dynamics of industrial relationships in a large research organisation
Joly, P.B. and V. Mangematin 25 (1997) 901
- Technological cooperative agreements and firms' R & D intensity, A note on causality relations
Colombo, M.G. and P. Garonne 25 (1997) 923
- An evolutionary approach to technological innovation in agriculture: some preliminary remarks.
Possas, M.L., S. Salles-Filho and J.M. da Silveira 25 (1997) 933
- Spinning off and spinning on(?): the federal government role in the development of the US computer software industry
Mowery, D.C. and R.N. Langlois 25 (1997) 947
- Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation
Kingsley, G., B. Bozeman and K. Coker 25 (1997) 967
- Features of policy making processes in Japan's Council for Science and Technology
Tanaka, Y. and R. Hirasawa 25 (1997) 999
- Innovation and employment in Italian manufacturing industry
Vivarelli, M., R. Evangelista and M. Pianta 25 (1997) 1013
- An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology
Joly, P.B. and M.A. de Looze 25 (1997) 1027
- The modern university: contributor to industrial innovation and recipient of industrial R & D support
Mansfield, E. and J.Y. Lee 25 (1997) 1047
- The determinants of overseas R & D by Japanese firms: an empirical study at the industry and company levels
Odagiri, H. and H. Yasuda 25 (1997) 1059
- Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria
Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi 25 (1997) 1081
- Learning-before-doing in the development of new process technology.
Pisano, G.P. 25 (1997) 1097
- Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals
Laursen, K. 25 (1997) 1121
- A comparison of the dynamics of industrial clustering in computing and biotechnology
Swann, P. and M. Prevezer 25 (1997) 1139
- A catalytic and evolutionary approach to horizontal technology policies
Teubal, M. 25 (1997) 1161
- National technology gaps and trade - an empirical study of the influence of globalisation
Daniels, P.L. 25 (1997) 1189
- Rethinking the market-technology relationship for innovation
Howells, J. 25 (1997) 1209

• Business, industry, agriculture and services

- Socio-technical constituencies, games theory, and the diffusion of compact discs. An inter-disciplinary investigation into the market for recorded music
Klaes, M. 25 (1997) 1221
- Measuring the unmeasurable: a country's non-R & D expenditure on product and service innovation
Brouwer, E. and A. Kleinknecht 25 (1997) 1235
- The French system of innovation in the oil industry: some lessons about the role of public policies and sectoral patterns of technological change in innovation networking
Furtado, A. 25 (1997) 1243
- Technological competencies and product's evolutionary dynamics: a case study from the aero-engine industry
Prencipe, A. 25 (1997) 1261
- Unravelling the cognitive and interorganisational structure of public/private R & D networks: A case study of catalysis research in the Netherlands
Tijssen, R.J.W. and J.C. Korevaar 25 (1997) 1277
- What is research collaboration?
Katz, J.S. and B.R. Martin 26 (1998) 1
- Smaller enterprises and innovation in the UK: the SPRU Innovations Database revisited
Tether, B.S., I.J. Smith and A.T. Thwaites 26 (1998) 19
- How persistently do firms innovate?
Geroski, P.A., J. Van Reenen and C.F. Walters 26 (1998) 33
- Getting round the lock-in in electricity generating systems: the example of the gas turbine
Islas, J. 26 (1998) 49
- Multi-mode interaction among technologies
Pistorius, C.W.I. and J.M. Utterback 26 (1998) 67
- The globalization of R & D: Results of a survey of foreign affiliated R & D laboratories in the USA
Florida, R. 26 (1998) 85
- The role of flexibility in the development of new products: An empirical study
Thomke, S.H. 26 (1998) 105
- Decision making in research and development collaboration
Chen, S.H. 26 (1998) 121
- The technological competencies of the world's largest firms: complex and path-dependent, but not much variety
Patel, P. and K. Pavitt 26 (1998) 141
- Managing large-scale technology and inter-organized relations: the case of the Channel Tunnel
Genus, A. 26 (1998) 169
- Research consortia as a vehicle for basic research: the case of a fifth generation computer project in Japan
Odagiri, H., Y. Nakamura and M. Shibuya 26 (1998) 191
- Technological diversification in the multinational corporation - historical evolution and future prospect
Zander, I. 26 (1998) 209
- From market magic to calypso science policy. A review of Terence Kealey's "*The Economic Laws of Scientific Research*"
David, P.A. 26 (1998) 229
- New, technology-based firms in innovation networks symplectic and generative impacts
Autio, E. 26 (1998) 263
- Determinants of patent rights: A cross-national study
Ginarte, J.C. and W.G. Park 26 (1998) 283
- Internal R & D expenditures and external technology sourcing
Veugelers, R. 26 (1998) 303
- The increasing linkage between U.S. technology and public science
Narin, F., K.S. Hamilton and D. Olivastro 26 (1998) 317
- Growth and inventiveness in technology-based spin-off firms
Dahlstrand, Å.L. 26 (1998) 331
- From technological potential to product performance: an empirical analysis
Iansiti, M. 26 (1998) 345
- Which way to go? Defence technology and the diversity of 'dual-use' technology transfer
Molas-Gallart, J. 26 (1998) 367
- Patents, licensing, and market structure in the chemical industry
Arora, A. 26 (1998) 391

- Learning and path-dependence in the diffusion of innovations: comparative evidence on numerically controlled machine tools
Mazzoleni, R. 26 (1998) 405
- Present at the biotechnological revolution: transformation of technological identity for a large incumbent pharmaceutical firm
Zucker, L.G. and M.R. Darby 26 (1998) 429
- Evaluating government-sponsored R & D consortia in Japan: who benefits and how?
Sakakibara, M. 26 (1998) 447
- Regional innovations systems: Institutional and organisational dimensions
Cooke, P., M. Gomez Uranga and G. Extbarria 26 (1998) 475
- Why has Britain had slower R & D growth?
Van Reenen, J. 26 (1998) 493
- Price indexes for PC database software and the value of code compatibility
Harhoff, D. and D. Moch 26 (1998) 509
- Nature and impact of innovation in manufacturing industry: some evidence from the Italian innovation survey
Evangelista, R., G. Perani, F. Rapiti and D. Archibugi 26 (1998) 521
- Innovation in services
Gallouj, F. and O. Weinstein 26 (1998) 537
- On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms
Thirtle, C., P. Palladino and J. Piesse 26 (1998) 557
- Research joint ventures in the US
Vonortas, N.S. 26 (1998) 577
- Modeling systems of innovation: An enterprise-centered view
Padmore, T., H. Schuetze and H. Gibson 26 (1998) 605
- Modeling systems of innovation: II. A framework for industrial cluster analysis in regions
Padmore, T. and H. Gibson 26 (1998) 625
- Towards knowledge-based product development: the 3-D CAD model of knowledge creation
Baba, Y. and K. Nobeoka 26 (1998) 643
- Improving the effectiveness of public-private R & D collaboration: case studies at a US weapons laboratory
Ham, R.M. and D.C. Mowery 26 (1998) 661
- Product complexity, innovation and industrial organization
Hobday, M. 26 (1998) 689
- The drivers of cooperation between buyers and suppliers for product innovation
Bidault, F., C. Despres and C. Butler 26 (1998) 719
- Location of innovating activities, industrial structure and techno-industrial clusters in the French economy, 1985-1990.
Evidence from US patenting
Bergeron, S., S. Lallich and C. Le Bas 26 (1998) 733
- The influence of local search and performance heuristics on new design introduction in a new product market
Martin, X. and W. Mitchell 26 (1998) 753
- Academic research and industrial innovation: An update of empirical findings
Mansfield, E. 26 (1998) 773
- Does sticky information affect the locus of innovation? Evidence from the Japanese convenience-store industry
Ogawa, S. 26 (1998) 777
- Quantitative assessment of large heterogeneous R & D networks: the case of process engineering in the Netherlands
Tijssen, R.J.W. 26 (1998) 791
- International diffusion of a new tool: the case Electronic Data Interchange (EDI) in the retailing sector
Jimenez-Martinez, J. and Y. Polo-Redondo 26 (1998) 811
- Innovation and export behavior at the firm level
Wakelin, K. 26 (1998) 829
- On the dynamics of appropriability, of tacit and of codified knowledge
Saviotti, P.P. 26 (1998) 843
- Innovation systems and technological specialization in Latin America and the Caribbean
Alcorta, L. and W. Peres 26 (1998) 857
- Combining technology and corporate strategy in small high tech firms
Berry, M.M.J. and J.H. Taggart 26 (1998) 883

• Business, industry, agriculture and services

- Why science is endogenous: a debate with Paul David (and Ben Martin, Paul Romer, Chris Freeman, Luc Soete and Keith Pavitt) 26 (1998) 897
Kealey, T.
- New technology-based firms in the European union: an introduction 26 (1998) 933
Storey, D.J. and B.S. Tether
- Smaller firms and Europe's high technology sectors: a framework for analysis and some statistical evidence 26 (1998) 947
Tether, B.S. and D.J. Storey
- New, technology-based firms in small open economies - An analysis based on the Finnish experience 26 (1998) 973
Autio, E. and H. Ily-Renko
- NTBFs - the French case 26 (1998) 989
Delapierre, M., B. Madeuf and A. Savoy
- New technology-based firms in Germany: a survey of the recent evidence 26 (1998) 1005
Licht, G. and E. Nerlinger
- Creative adaptation: the role of new technology based firms in Portugal 26 (1998) 1023
Laranja, M. and M. Fontes
- Public policy measures to support new technology-based firms in the European Union 26 (1998) 1037
Storey, D.J. and B.S. Tether
- Technology and the firm: introduction 27 (1998) iii
Cantwell, J.
- Industrial research as a source of important patents 27 (1998) 1
Ernst, H.
- The evolution of technological capabilities in the multinational corporation - dispersion, duplication and potential advantages from multinationality 27 (1998) 17
Zander, I.
- A dynamic analysis of the relations between the structure and the process of National Systems of Innovation using computer simulation: the case of the Dutch biotechnological sector 27 (1998) 37
Jansen, F.H.A. and G.H. Degenars
- Simulation, learning and R & D performance: Evidence from automotive development 27 (1998) 55
Thomke, S.H.
- The nature of long-run technological change: innovation, evolution and technological systems 27 (1998) 75
Leoncini, R.
- Optimal scale for research and development in foreign environments - an investigation into size and performance of research and development laboratories abroad 27 (1998) 111
Kuemmerle, W.
- What percentage of innovations we patented? Empirical estimates for European firms 27 (1998) 127
Arundel, A. and I. Kabla
- The occupational dynamics of recent Canadian engineering graduates inside and outside the bounds of technology 27 (1998) 143
Lavoie, M. and R. Finnie
- Managing innovation: The pursuit of competitive advantage and the design of innovation intense environments 27 (1998) 159
Roberts, R.
- Partnerships in transition economies: international strategic technology alliances in Russia 27 (1998) 177
Hagedoorn, J. and J.B. Sedaitis
- Fiscal incentives to consumer innovation: the use of unleaded petrol in Europe 27 (1998) 187
Stoneman, R. and G. Battisti
- Technology acquisition, de-regulation and competitiveness: a study of Indian automobile industry 27 (1998) 215
Narayanan, K.
- 'Knowledge management practices' and path-dependency in innovation 27 (1998) 237
Coombs, R. and R. Hull
- A comparison of networks between industry and public sector research in materials technology and biotechnology 27 (1998) 255
Peters, L., P. Groenewegen and N. Fiebelkorn
- The benefits and costs of strong patent protection: a contribution to the current debate 27 (1998) 273
Mazzoleni, R. and R.R. Nelson
- Assessment of Flemish R & D in the field of information technology. A bibliometric evaluation based on publication and patent data, combined with OECD research input statistics 27 (1998) 285
Noyons, E.C.M., M. Luwel and H.F. Moed
- Domestic and international product-embodied R & D diffusion 27 (1998) 301
Papaconstantinou, G., N. Sakurai and A. Wyckoff

- Modes of experimentation: an innovation process – and competitive – variable
Thomke, S., E. Von Hippel and R. Franke 27 (1998) 315
- Economic analyses of Industrial Research Institutes in developing countries: the Indian experience
Katrak, H. 27 (1998) 337
- On the structuring of variation in innovation processes: a case of new product development in the crop protection industry
Den Hond, F. 27 (1998) 349
- Organizational processes to meet new performance criteria: Chinese pharmaceutical firms in transition
White, S. and X. Liu 27 (1998) 369
- The relevance of science and technology indicators: the case of pulp and paper
Laestadius, S. 27 (1998) 385
- A typology of networks: flexible and evolutionary firms
Belussi, F. and F. Arcangeli 27 (1998) 415
- Analysis of in-house R & D centres of innovative firms in India
Sikka, P. 27 (1998) 429
- Does technological convergence imply convergence in markets? Evidence from the electronics industry
Gambardella, A. and S. Torrisi 27 (1998) 445
- Towards a theory of the technology-based firm
Granstrand, O. 27 (1998) 465
- The entry mode choice of MNEs: an evolutionary approach
Matinelli, M. and L. Piscitello 27 (1998) 491
- Technological overlap and interfirm cooperation: implications for the resource-based view of the firm
Mowery, D.C., J.E. Oxley and B-S. Silverman 27 (1998) 507
- Do firms in clusters innovate more?
Baptista, R. and P. Swann 27 (1998) 525
- Patterns of internationalization of Spanish innovatory firms
Molero, J. 27 (1998) 541
- The inevitable limits of EU R & D funding
Pavitt, K. 27 (1998) 559
- Competitiveness and cohesion – are the two compatible?
Sharp, M. 27 (1998) 569
- The networks promoted by the framework programme and the questions they raise about its formulation and implementation
Larédo, P. 27 (1998) 589
- The difficulties in assessing the impact of EU framework programmes
Luukkonen, T. 27 (1998) 599
- Global cooperation in research
Georghiou, L. 27 (1998) 611
- Global interdependence or the European fortress? Technology policies in perspective
Väyrynen, R. 27 (1998) 627
- The changing structure of the US national innovation system: implications for international conflict and cooperation in R & D policy
Mowery, D.C. 27 (1998) 639
- Technical change and incorporated R & D in the service sector
Amable, B. and S. Palombarini 27 (1998) 655
- A cognitive model of innovation
Nightingale, P. 27 (1998) 689
- Innovation policies within the framework of internationalization
Jacobs, D. 27 (1998) 711
- Small and large firms: sources of unequal innovations?
Tether, B.S. 27 (1998) 725
- Linking Theory and Practice: Introduction
Mayntz, R. and U. Schimank 27 (1998) 747
- Mediation in the Dutch science system
van der Meulen, B. and A. Rip 27 (1998) 757
- Research institutions in France: between the Republic of science and the nation-state in crisis
Papon, P. 27 (1998) 771

• Business, industry, agriculture and services

- Socialist academies of sciences: the enforced orientation of basic research at user needs
Mayntz, R. 27 (1998) 781
- The social shaping of the national science base
Pavitt, K. 27 (1998) 793
- The norms of entrepreneurial science: cognitive effects of the new university-industry linkages
Etzkowitz, H. 27 (1998) 823
- Science-based technologies: university-industry interactions in four fields
Meyer-Krahmer, F. and U. Schmoch 27 (1998) 835
- Experimental implementation as a linking mechanism in the process of innovation
van den Daele, W. and W. Krohn 27 (1998) 853
- Technological innovation in services and manufacturing: results from Italian surveys
Sirilli, G. and R. Evangelista 27 (1998) 881
- In search of project classification: a non-universal approach to project success factors
Dvir, D., S. Lipovetsky, A. Shenhar and A. Tishler 27 (1998) 915
- Passing the European Patent Office: evidence from the data-processing industry
van Dijk, T. and G. Duysters 27 (1998) 937
- Why has the investment performance of technology-specialist, European venture capital funds been so poor?
Murray, G.C. and R. Marriot 27 (1998) 947
- What is behind the recent surge in patenting?
Kortum, S. and J. Lerner 28 (1999) 1
- Overseas R & D and the strategic evolution of MNEs: evidence from laboratories in the UK
Pearce, R. and M. Papanastassiou 28 (1999) 23
- Transnational cooperation and policy networks in European science policy-making
Grande, E. and A. Peschke 28 (1999) 43
- Make and buy in innovation strategies: evidence from Belgian manufacturing firms
Veugelers, R. and B. Cassiman 28 (1999) 63
- The Internationalization of Industrial R & D
Niosi, J. 28 (1999) 107
- Technological globalisation and innovative centres: the role of corporate technological leadership and locational hierarchy
Cantwell, J. and O. Janne 28 (1999) 119
- Patterns of internationalisation of corporate technology: location vs. home country advantages
Patel, P. and M. Vega 28 (1999) 145
- Decentralised R & D and strategic competitiveness: globalised approaches to generation and use of technology in multinational enterprises (MNEs)
Pearce, R.D. 28 (1999) 157
- Foreign direct investment in industrial research in the pharmaceutical and electronics industries - results from a survey of multinational firms
Kuemmerle, W. 28 (1999) 179
- How do you mean 'global'? An empirical investigation of innovation networks in the multinational corporation
Zander, I. 28 (1999) 195
- Canadian R & D abroad management practices
Niosi, J. and B. Godin 28 (1999) 215
- New concepts and trends in international R & D organization
Gassmann, O. and M. von Zedtwitz 28 (1999) 231
- Globalization of R & D: recent changes in the management of innovation in transnational corporations
Gerybadze, A. and G. Reger 28 (1999) 251
- Internationalization of corporate R & D: a study of Japanese and Swedish corporations
Granstrand, O. 28 (1999) 275
- Globalization of industrial R & D: an examination of foreign direct investments in R & D in the United States
Serapio Jr., M.G. and D.H. Dalton 28 (1999) 303
- The policy implications of the globalisation of innovation
Archibugi, D. and S. Iammarino 28 (1999) 317
- Failure and success: the fate of industrial policy in Latin America and South East Asia
Etzkowitz, H. and S.N. Brisolla 28 (1999) 337

- Patterns of restructuring in research, development and innovation activities in central and eastern European countries:
an analysis based on S & T indicators 28 (1999) 351
Radosevic, S. and L. Auriol
- Patent statistics in the age of globalisation: new legal procedures, new analytical methods, new economic interpretation 28 (1999) 377
Grupp, H. and U. Schmoch
- Public research and industrial innovations in Germany 28 (1999) 397
Beise, M. and H. Stahl
- The implications of network use, production network externalities and public networking programmes for firm's
productivity 28 (1999) 423
Koski, H.
- Interdependencies between the science and technology infrastructure and innovation activities in German regions:
empirical findings and policy consequences 28 (1999) 451
Blind, K. and H. Grupp
- Variety and niche creation in aircraft, helicopters, motorcycles and microcomputers 28 (1999) 469
Frenken, K., P.P. Saviotti and M. Trommetter
- In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge
flows in information and communication technologies research 28 (1999) 519
Tijssen, R.J.W. and E. van Wijk
- Territorial concentration and evolution of science and technology activities in the European Union: a descriptive
analysis 28 (1999) 545
Zitt, M., R. Barré, A. Sigogneau and F. Laville
- An integrated network approach to systems of innovation – the case of robotics in Japan 28 (1999) 563
Kumaresan, N. and K. Miyazaki
- R & D dynamics of creating patents in the Japanese industry 28 (1999) 587
Kondo, M.
- The rise and fall of 'Supernet': a case study of technology transfer policy for smaller firms 28 (1999) 601
Bessant, J.
- Organizing international technological collaboration in subcontractor relationships: an investigation of the
knowledge-stickiness problem 28 (1999) 625
Houman Andersen, P.
- Technological entry, exit and survival: an empirical analysis of patent data 28 (1999) 643
Malerba, F. and L. Orsenigo
- Environmental policies and innovation: a knowledge-based perspective on cooperative approaches 28 (1999) 699
Aggeri, F.
- New perspectives on the innovation strategies of multinational enterprises: lessons for technology policy in Europe 28 (1999) 749
Meyer-Krahmer, F. and G. Reger
- The construction of the techno-economic: networks vs. paradigms 28 (1999) 775
Green, K., R. Hull, A. McMeekin and V. Walsh
- Innovation and inter-firm linkages: new implications for policy 28 (1999) 791
Nooteboom, B.
- The microeconomics of manufacturing modernization programs 28 (1999) 805
Feller, I. and J.P. Nelson
- Do innovative activities matter to small firms in non-R & D-intensive industries? An application to export performance 28 (1999) 817
Sterlacchini, A.
- Technological transformations in history: how the computer regime grew out of existing computing regimes 28 (1999) 831
van den Ende, J. and R. Kemp
- The rise of clusters of innovative industries in Belgium during the industrial epoch 28 (1999) 851
Boschma, R.A.
- Making sense of diversity and reluctance: academic-industrial relations and intellectual property 28 (1999) 871
Rappert, B., A. Webster and D. Charles

• Government

- A resource-based analysis of the factors determining a firm's R & D activities 28 (1999) 889
Galende Del Canto, J. and I. Suárez González

Government

- Lessons from the objective appraisal of programmes at the national level – implications of criteria and policy 1 (1971/72) 10
Jones, P.M.S.
- Priorities for research and technological development 1 (1971/72) 28
Krauch, H.
- The incorporation of health and welfare risks into technological forecasts 1 (1971/72) 40
Sinclair, C.
- The importance of graph theory in research planning 1 (1971/72) 60
Czayka, L.
- Innovation in pharmaceuticals 1 (1971/72) 89
Langrish, J.
- Obstacles to space co-operation: Europe and the post-Apollo Experience 1 (1971/72) 104
Valentine, B.
- The appraisal and control of complex development projects 1 (1971/72) 122
Gardner, N.K.
- The use of technological forecasts in government planning 1 (1971/72) 156
Coenen, R.
- Innovation in electron-optical instruments – two British case histories 1 (1971/72) 174
Jervis, P.
- Technology in Europe's future 1 (1971/72) 210
Pavitt, K.
- The ESTEC project control system 1 (1971/72) 274
Gehrig, H.
- Science, technology and regional economic development 1 (1971/72) 296
Clark, N.G.
- The regional distribution of research and development (as note) 1 (1971/72) 320
Müller, K. and R. Nejedly
- The role of co-operative research in British industry 1 (1971/72) 332
Johnson, P.S.
- Life cycle of basic research – an approach to the quantitative analysis of R & D activity 1 (1971/72) 352
Yamada, K. and E. Otaki
- Science policy-needed research (as note) 1 (1971/72) 386
Lamson, R.W.
- Public accountability and the project-grant mechanism 2 (1973/74) 2
Stein, B.R.
- Technological assessment of external effect 2 (1973/74) 18
Ternière-Buchot, P.F.
- Application of PPBS to R & D planning 2 (1973/74) 40
Gresser, K.
- Decision-making in big science – the development of the high-voltage electron microscope 2 (1973/74) 56
Leach, B.
- A dying debate 2 (1973/74) 88
Koch, C.
- Priorities in research policy 2 (1973/74) 94
Ahrens, H.J., R. Coenen, L. Czayka, I. Karst, H. Weyand, G. Beker, B. Wingert, H.G. Kruse, H. Krauch, F. Niwa, G. Bechmann, I. v. Berg, G. Brosi and H. Folkers
- An operational, policy-oriented research categorization scheme 2 (1973/74) 186
Falk, C.E.
- Research planning in French science policy: an assessment 2 (1973/74) 226
Papon, P.

- The multi-role combat aircraft (MRCA): a case study in European collaboration
Walker, W.B. 2 (1973/74) 280
- Some remarks and proposals concerning the planning and performance of technology assessment studies
Paschen, H. and K. Gresser 2 (1973/74) 306
- The limits of science policy in a developing country: the Turkish case. A study based on the experience of the scientific and technical research council of Turkey
Turkcan, E. 2 (1973/74) 336
- Innovation in a federal state
Wilson, A.H. 2 (1973/74) 364
- US Government support for civilian technology: economic theory versus political practice
Eads, G. 3 (1974/75) 2
- Behavioural aspects of research management-a review
Blume, S.S. 3 (1974/75) 40
- High-voltage electron microscopy in the UK
Hirsch, P.B. 3 (1974/75) 78
- Some aspects of regional-national scientific relationships in East Africa: a summary
Schlie, T.W. and A.H. Rubenstein 3 (1974/75) 98
- Science and technology in Sweden: the Fabians versus Europe
Dörfer, I.N.H. 3 (1974/75) 134
- Some characteristic aspects of science policy in the Federal Republic of Germany
Lübbe, H. 3 (1974/75) 172
- Canadian science policy: report number four revisited
Wilson, A.H. 3 (1974/75) 202
- The roles of science in technological innovation
Gibbons, M. and R. Johnston 3 (1974/75) 220
- Management, politics and science: A non-separable system
Blankenship, L.V. 3 (1974/75) 244
- The Indian patent system and indigenous R & D
Joshi, S.S., J.V. Rajan and S.K. Subramanian 3 (1974/75) 292
- Between the market and the state: dilemmas of French policy for the electronics industry
Zysman, J. 3 (1974/75) 312
- Innovation in industry: the state and results of recent economic research in western European countries except F.R.
Germany 3 (1974/75) 338
Ray, G.F.
- R & D coordination in industry and university
Steck, R. 3 (1974/75) 360
- MRCA: Comment on the article by W.B. Walker
Saul, S.B. 3 (1974/75) 373
- MRCA: Reply to Professor Saul
Walker, W.B. 3 (1974/75) 375
- Japanese technology policy: achievements and perspectives
Long, T.D. 4 (1975) 2
- Service cost: an approach to technological policy
Baruch, J.J. 4 (1975) 46
- The European molecular biology organisation: a case-study of decision-making in science policy
Drath, L., M. Gibbons and J. Ronayne 4 (1975) 56
- Response to Research Policy on article on MRCA
Greenwood, A. 4 (1975) 207
- MRCA: reply to Mr. Greenwood
Walker, W.B. 4 (1975) 211
- The state and technological competition in France or Colbertism in the 20th century
Papon, P. 4 (1975) 214
- The role of cost-benefit analysis in planning agricultural R & D programmes
Wise, W.S. 4 (1975) 246
- Technical change and social need; the case of high-rise flats
McCutcheon, R. 4 (1975) 262

• Government

- Innovation in industry: A discussion of the state-of-the-art and the results of innovation research in German-speaking countries
Uhlmann, L. 4 (1975) 312
- Technical and institutional transfer in agricultural development
Ruttan, V.W. 4 (1975) 350
- The venture capital market and technological innovation
Bean, A.S., D.D. Schiffl and M.E. Mogee 4 (1975) 380
- Government politics towards industrial innovation: a review
Pavitt, K. and W. Walker 5 (1976) 11
- West German science policy since the early 1960s: trends and objectives
Keck, O. 5 (1976) 116
- An educational TV satellite for India: a critical assessment
Melzer, A. 5 (1976) 158
- Recoupment of government R & D expenditures: issues and practices in the USA
Windus, M.L. and D.D. Schiffl 5 (1976) 180
- Response to Burns and Studer's 'Reflections on Alvin M. Weinberg'
Weinberg, A.M. 5 (1976) 197
- Reply to Alvin M. Weinberg
Burns, E.M. and K.E. Studer 5 (1976) 201
- Decision-making and reorganization of the British nuclear power industry
Wonder, E.F. 5 (1976) 240
- Science and technology in the European communities: the history of the COST projects
Aked, N.H. and P.J. Gummett 5 (1976) 270
- Comment on 'Science and technology in the European communities: the history of the COST projects'
Klose, A. 5 (1976) 295
- Performance in innovation in the Israeli electronics industry: a case study of biomedical electronics instrumentation
Teubal, M.N., N. Armon and M. Trachtenberg 5 (1976) 354
- The RKW: a new approach towards technology transfer. Methods for the promotion of innovation in small- and medium-sized companies
Rupp, A. 5 (1976) 398
- The super-computer project: a case study in the interaction of science, government and industry in the UK
Drath, P., M. Gibbons and R. Johnston 6 (1977) 2
- In search of useful theory of innovation
Nelson, R.R. and S.G. Winter 6 (1977) 36
- Evaluation of the benefits of laboratory research and information services
Jones, P.M.S. and A.L. Willett 6 (1977) 152
- Automation in textile machinery
Catling, H. and R. Rothwell 6 (1977) 164
- Changes in centralization of science
Inhaber, H. 6 (1977) 178
- Technological choice and socio-economic imperative: a case study of textile technologies in India
Joshi, N. 6 (1977) 202
- Innovation in Canada: an update
Wilson, A.H. 6 (1977) 276
- Management perceptions of government incentives to technological innovation in England, France, West Germany and Japan
Rubenstein, A.H., C.F. Douds, H. Geschka, T. Kawase, J.P. Miller, R. Saintpaul and D. Watkins 6 (1977) 324
- Technological innovation in developing countries: a review of the literature
Crane, D. 6 (1977) 374
- Defense department payment for company financed R & D
Reppy, J. 6 (1977) 396
- Government programs and the growth of high technology industries
Schnee, J.E. 7 (1978) 2
- Scientific and political orientation of American scientists
Anand, H.R. and J. Haberer 7 (1978) 26
- Comment on 'Automation in textile machinery'
Bayliss, C.R. 7 (1978) 99

- A new push of basic innovations? 7 (1978) 108
Mensch, G.
- Government influence on the process of innovation in Europe and Japan 7 (1978) 124
Allen, Th.J., J.M. Utterback, M.A. Sirbu, N.A. Ashford and J.H. Hollomon
- Government aid for the development of innovative technology: Lessons from the French 7 (1978) 176
Sirbu Jr., M.A.
- The neglect of socio-economic research by US energy and environmental agencies 7 (1978) 198
Conn, W.D.
- Canada-India nuclear cooperation 7 (1978) 220
Bindon, G. and S. Mukerji
- Government research for industry: Recent British Developments 7 (1978) 268
Gummett, P. and M. Gibbons
- The determinants of the potential effectiveness of government-supported industrial research institutes 7 (1978) 362
Toren, N. and D. Galaï
- Social structures and the flow of scientific information in public agencies: An ideal design 7 (1978) 384
Bozeman, B., K. Roering and E.A. Slusher
- Research policy and industrial material 8 (1979) 80
Ray, G.F.
- Public bodies as entrepreneurs 8 (1979) 154
Cannon, C.M. and K. Grossfield
- Canada-India nuclear cooperation: A rebuttal 8 (1979) 187
Morrison, R.W. and E.F. Wonder
- Canada-India nuclear cooperation: A rejoinder to a rebuttal 8 (1979) 191
Bindon, G. and S. Mukerji
- European policies on space science and technology 1960-1978 8 (1979) 204
Schwarz, M.
- Setting research priorities 8 (1979) 260
Ross, H.H., W.S. Lyon and W.D. Shults
- The local government market as a stimulus to industrial innovation 8 (1979) 340
Roessner, J.D.
- R & D strategy in the U.S. pharmaceutical industry 8 (1979) 364
Schnee, J.D.
- Centres of decision in French science policy: The contrasting influences of scientific experts and administrators 8 (1979) 384
Papon, P.
- Dimensions of R & D location in the United States 9 (1980) 2
Malecki, E.J.
- Developing countries as exporters of industrial technology 9 (1980) 24
Lall, S.
- The origin and direction of industrial R & D in India 9 (1980) 74
Desai, A.V.
- Organizational aspects of Nigeria's research system 9 (1980) 148
Clark, N.
- An analysis of factors influencing the utilization of contract research in a developing country, Korea 9 (1980) 174
Lee, J. and A.H. Rubenstein
- Stages of development of industrial technology in a developing country: a model 9 (1980) 254
Kim, L.
- The consequences of dissent: Sociological reflections on the controversy of the low dose effect 9 (1980) 278
Nowotny, H. and H. Hirsch
- The State and technical innovation: A case study of the electrical vehicle in France 9 (1980) 358
Callon, M.
- University research grants management: Accountability viewed as an exchange- the U.S. case 10 (1981) 46
Arnow, K.S.
- Transfer of indigenous technology - some Indian cases 10 (1981) 172
Rajan, J.V., N.D. Seth, S.K. Subramanian, A.K. Chakrabarti and A.H. Rubenstein
- The impact of the Science Research Council's policy of selectivity and concentration on average levels of research support: 1965-1974 10 (1981) 202
Farina, C. and M. Gibbons

• Government

- Technology and economic growth: The case of Japan 10 (1981) 222
 Peck, M.J. and A. Goto
- Non-price factors in the export competitiveness of agricultural engineering products 10 (1981) 260
 Rothwell, R.
- A cognitive approach to science policy 10 (1981) 294
 Rip, A.
- The present status and problems of impact research in technology policy: A case study on the federal program for funding research and development personnel in Germany 10 (1981) 356
 Meyer-Krahmer, F.
- Measuring the contribution of biomedical research to the production of health 11 (1982) 3
 Vehorn, C.L., J.S. Landefeld and D.P. Wagner
- The funding of university research: A comparative study of the United Kingdom and Canada 11 (1982) 15
 Chapman, I.D., C. Farina and M. Gibbons
- A note on the time lag between the life cycle of a discipline and resource allocation in Japan 11 (1982) 133
 Tsukahara, S. and K. Yamada
- The commercialization of federally sponsored technological innovations 11 (1982) 173
 Ettlie, J.E.
- An assessment of the benefits of the diffusion of an innovation 11 (1982) 261
 Reekie, W.D.
- Government policy, innovation and economic growth: Lessons from a study of satellite communications 11 (1982) 271
 Teubal, M. and E. Steinmueller
- The role of government in supporting measurement standards for high-technology industries 11 (1982) 311
 Tassey, G.
- Farmers' financing of agricultural research in Israel 11 (1982) 321
 Gelb, E. and Y. Kislev
- The evaluation of technology R & D: A continuing dilemma 11 (1982) 347
 DeLeon, P.
- Research priorities and science policy objectives for the management of soils in arid lands 11 (1982) 373
 Hallsworth, E.G.
- A review of literature and hypotheses on new technology based firms 12 (1983) 1
 Bollinger, L., K. Hope and J.M. Utterback
- The influence of Ministry of Defence funding on semiconductor research and development in the United Kingdom 12 (1983) 113
 Dickson, K.
- Impacts of government incentives towards industrial innovation: An analysis of the federal programme funding R & D personnel in the Federal Republic of Germany 12 (1983) 153
 Meyer-Krahmer, F., G. Gielow and U. Kuntze
- The measurement of goal attainment of governmental R & D support 12 (1983) 171
 Brockhoff, K.
- Innovation, market structure and government policy in the American semiconductor industry: A survey 12 (1983) 183
 Mowery, D.C.
- Innovation behavior of small and medium-scale firms: Reform possibilities for R & D policy-making on the federal state level in the Federal Republic of Germany 12 (1983) 213
 Bruder, W.
- Policy implications of the innovation process in the U.S. food sector 12 (1983) 239
 Ettlie, J.E.
- Foreign technology in the Spanish economy: An analysis of the recent evolution 12 (1983) 269
 Molero, J.
- Peer Review and national need 12 (1983) 317
 Chapman, I.D. and C. Farina
- The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 13 (1984) 1
 de Solla Price, D.
- Tax incentives for R & D: A critical evaluation 13 (1984) 21
 Bozeman, B. and A.N. Link
- Government and its utilization by industry 13 (1984) 55
 Alam, G. and J. Langrish

- Pricing research and development services in the USSR 13 (1984) 85
Bornstein, M.
- Governmental innovation support in Norway: Micro- and macro-level effects 13 (1984) 165
Grønhaug, K. and T. Fredriksen
- CERN: Past performance and future prospects I. CERN's position in world high-energy physics 13 (1984) 183
Martin, B.R. and J. Irvine
- Commercializing solar technology: The government role 13 (1984) 235
Roessner, J.D.
- Technological innovation and industrial research in Japan 13 (1984) 285
Oshima, K.
- India's technological capability in the capital goods sector: The case of Singapore 13 (1984) 303
Desai, A.V.
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 14 (1985) 23
Jasanoff, S.
- The technology policy experiment as policy research tool 14 (1985) 39
Tassey, G.
- The effects of R & D tax credits and allowances in Canada 14 (1985) 97
Mansfield, E. and L. Switzer
- The significance of technological change in medicine: An introduction 14 (1985) 173
Blume, S.S.
- From the gene to the general practitioner: A paradigm of research 14 (1985) 189
Robinson, D.M., J. Moscovitz and C.J.M. Lenfant
- The influence of health service procurement policy on research and development in the UK medical capital equipment industry 14 (1985) 205
Hutton, J. and K. Hartley
- Demand structure and technological change: The case of the European semiconductor industry 14 (1985) 283
Malerba, F.
- Two perceptions of science development 15 (1986) 1
Moravcsik, M.J.
- Evaluation of performance of health research in the Netherlands 15 (1986) 33
Rigter, H.
- The war on poverty and social science research 1965-1980 15 (1986) 53
Haveman, R.
- Technological innovation in a research laboratory in India: A case study 15 (1986) 89
Chaudhuri, S.
- Innovation policy in an open economy: A normative framework for strategic and tactical issues 15 (1986) 121
Justman, M. and M. Teubal
- Strengthening the management of public research policy in Italy 15 (1986) 149
Bianco, L. and P. d'Anselmi
- Technological intensity: Concept and measurement 15 (1986) 187
Palda, K.S.
- Joint R & D: The case of microelectronics and Computer Technology Corporation 15 (1986) 219
Peck, M.J.
- An experiment in science mapping for research planning 15 (1986) 233
Healy, P., H. Rothman and P.K. Hoch
- Between dirigism and laissez-faire: Effects of implementing the science policy priority for biotechnology in the Netherlands 15 (1986) 253
Rip, A. and A.J. Nederhof
- Theoretically sound: practically useless? Government grants for industrial R & D in Australia 15 (1986) 269
Macdonald, S.
- Toward a global agricultural research system: A personal view 15 (1986) 307
Ruttan, V.W.
- Environmental research in Israel: On the need for a novel organizational change 16 (1987) 17
Amir, S.
- Assessing basic research: Reappraisal and update of an evaluation of four radio astronomy observatories 16 (1987) 213
Irvine, J., B.R. Martin, J. Abraham and T. Peacock

• Government

- R & D laboratory classification and public policy: The effect of environmental context on laboratory behavior. 16 (1987) 229
Crow, M. and B. Bozeman
- Innovation in China's semiconductor components industry: The case of Shanghai 16 (1987) 259
Simon, D.F. and D. Rehn
- Innovation can be taught 16 (1987) 303
Buijs, J.A.
- The new agricultural research and technology transfer policy agenda 16 (1987) 315
Feller, I., P. Madden, L. Kaltreider, D. Moore and L. Sims
- Social assessment of workplace technology – some experiences with the German program 'Humanization of work' 16 (1987) 337
Dankbaar, B.
- Federally supported commercial technology development: Solar thermal technologies 1970-1982 17 (1988) 27
Gates, W.
- Options for mission-orientation in ecology 17 (1988) 75
Cramer, J.
- The 'incentive subsidy' for government support of private R & D 17 (1988) 105
Fölster, S.
- Bibliometric analysis of U.S. Pharmaceutical industry research performance 17 (1988) 139
Narin, F. and R.P. Rozek
- A theory of white elephants: Asymmetric information in government support for technology 17 (1988) 187
Keck, O.
- Biotechnology development in India: Some policy issues 17 (1988) 235
Lachke, A.H., J.V. Rajan, M.C. Srinivasan and S.A. Tambe
- The value of technology: A survey of the Chinese theoretical debate and its policy implications 17 (1988) 269
Baark, E.
- The limits of science and the scientific method 17 (1988) 293
Moravcsik, M.J.
- Modelling the determination of research output in British universities 17 (1988) 315
Hare, P. and G. Wyatt
- Government and the decentralization of R & D 17 (1988) 363
Lacroix, R. and F. Martin
- Innovation expenditures and the role of government in Belgium 17 (1988) 375
Holemans, B. and L. Sleuwaegen
- Policy options for government funding of advanced technology – the case of international collaboration in the European Telecommunication Satellite Programme 18 (1989) 33
Müller, J.
- Strategic conferencing: A new approach in science policy 18 (1989) 51
Vos, C.M. and C.L. Balfoort
- Public support for civil R & D in the UK: Limitations of recent policy debate 18 (1989) 99
Smith, K.
- Tax incentives and R & D spending: A review of the evidence 18 (1989) 119
Cordes, J.J.
- Regularities in the growth of high technology industries in regions 18 (1989) 135
Eto, H. and M. Fujita
- Exploring the cost-efficiency of basic research funding in chemistry 18 (1989) 165
Averch, H.A.
- Evaluation of government innovation programs: Introduction 18 (1989) 309
Roessner, J.D.
- Evaluations of innovation programs in selected European countries 18 (1989) 313
Meyer-Krahmer, F. and P. Montigny
- Nordic experiences of the evaluation of technical research and development 18 (1989) 333
Ormala, E.
- Evaluating government innovation programs: Lessons from the U.S. experience 18 (1989) 343
Roessner, J.D.
- Japanese-style evaluation systems for R & D projects: The MITI experience 18 (1989) 361
Tanaka, M.
- Evaluations of innovation programs in selected European countries 18 (1989) 379
McKeon, R. and J.A. Ryan

- U.S. technological leadership: Where did it come from and where did it go? 19 (1990) 117
Nelson, R.R.
- The cost of commercializing energy inventions 19 (1990) 147
Brown, M.A.
- Issues on measuring industrial R & D 19 (1990) 157
Lichtenberg, F.R.
- Why do firms do basic research (with their own money)? 19 (1990) 165
Rosenberg, N.
- Capitalism as an engine of progress 19 (1990) 193
Nelson, R.R.
- Innovation and productivity: An analysis of the chemical, textiles and machine tool industries in the U.S 19 (1990) 257
Chakrabarti, A.K.
- International technology transfer: A review 19 (1990) 285
Reddy, N.M. and L. Zhao
- Transputers and transputer-based parallel computers: Sociotechnical constituencies and the build-up of British-European capabilities in information technologies 19 (1990) 309
Molina, A.H.
- The economic impact of industry-funded university R & D 19 (1990) 349
Berman, E.M.
- The commercialization of government-sponsored technologies: Canadian evidence 19 (1990) 369
Bhanich Supapol, A.
- Between accommodation and orchestration: The implementation of the science policy priority for biotechnology in the Netherlands 19 (1990) 379
Nederhof, A.J.
- Utility of bibliometric analysis for research policy: A case study of Spanish research in Neuroscience 19 (1990) 457
Gómez, I., E. Sanz and A. Méndez
- Scientific and Technological Information Banks for the network management of research 19 (1990) 467
Turner, W.A., B. Michelet and J.P. Courtial
- Rethinking the telecommunication infrastructure. The new 'black box' 19 (1990) 501
Mansell, R.
- Academic research and industrial innovation 20 (1991) 1
Mansfield, E.
- Evaluating the funding of strategic science: Some lessons from British experience 20 (1991) 29
Senker, J.
- Government policy and performance of the Indian engineering industry 20 (1991) 45
Jacobsson, S.
- A technological communications costs of models R & D consortia as public policy 20 (1991) 87
Watkins, T.A.
- What makes basic research economically useful? 20 (1991) 109
Pavitt, K.
- Guidelines for successfully transferring government-sponsored innovations 20 (1991) 121
Brown, M.A., L.G. Berry and R.K. Goel
- Resource allocation for agricultural research 20 (1991) 145
Dinar, A.
- The political economy of R & D taxonomies 20 (1991) 179
Averch, H.A.
- The use of a levy/grant system as an alternative to tax based incentives to R & D 20 (1991) 195
Stoneman, P.
- Conflicting perceptions of plans for an academic center 20 (1991) 217
Myers, G.
- Technical and political change in basic research: The case of the European X-Ray Observatory Satellite 20 (1991) 261
Barry, A.
- Private research and public benefit: The private seed industry for sorghum and pearl millet in India 20 (1991) 315
Pray, C.E., S. Ribeiro, R.A.E. Mueller and P.P. Rao
- The functions of technology infrastructure in a competitive economy 20 (1991) 345
Tassey, G.

• Government

- Networks of innovators: A synthesis of research issues
Freeman, C. 20 (1991) 499
- R & D management in Japanese research institutes
Sakakura, S. and M. Kobayshi 20 (1991) 531
- Innovation policy making in a federalist system: Lessons from the states for US. Federal innovation policy making
Atkinson, R.D. 20 (1991) 559
- A quantitative assessment of interdisciplinary structures in science and technology: Co-classification analysis of energy research
Tijssen, R.J.W. 21 (1992) 27
- The U.S. national innovation system: Origins and prospects for change
Mowery, D.C. 21 (1992) 125
- Origins of Japanese industrial research: Pre-war government policy and in-house research at Mitsubishi Nagasaki Shipyard
Fukasaku, Y. 21 (1992) 197
- The management and evaluation of technological programs and the dynamics of techno-economic networks: The case of the AFME
Callon, M., P. Laredo, V. Rabeharisoa, T. Gonard and T. Leray 21 (1992) 215
- The public sector as first user of innovations
Dalpé, R., C. DeBresson and H. Xiaoping 21 (1992) 251
- Academic research and industrial innovation: A further note
Mansfield, E. 21 (1992) 295
- Private and quasi-social rates of return on pharmaceutical R & D in Japan
Odagiri, H. and N. Murakami 21 (1992) 335
- Institutional relationships and technology commercialization: limitations of market-based policy
Aram, J.D., L.H. Lynn and N.M. Reddy 21 (1992) 409
- The German R & D system in transition: Empirical results and prospects of future development
Meyer-Krahmer, F. 21 (1992) 423
- Technology policy for industrialization: An integrative framework and Korea's experience
Kim, L. and C.J. Dahlman 21 (1992) 437
- High temperature superconductivity research in the USSR
Berry, M.J. 21 (1992) 513
- Estimating demand for SDI-related spin-off technologies
Gottinger, H.W. 22 (1993) 73
- Government policies towards industrial innovation: a review
Pavitt, K. and W. Walker 22 (1993) 114
- The rhetoric of consensus politics: a critical review of technology assessment
Wynne, B. 22 (1993) 116
- Do we need a price index for industrial R & D?
Jankowski Jr., J.E. 22 (1993) 195
- Assessing the performance of European collaborative R & D policy: The case of Eureka
Peterson, J. 22 (1993) 243
- Multinational companies and technological change: Basic traits and taxonomy of the behavior of German industrial companies in Spain
Molero, J. and M. Buesa 22 (1993) 265
- The dynamics of technological innovation: The sector of antibacterial medicines
Achilladelis, B. 22 (1993) 279
- Patterns of collaborative innovation in the US telecommunications industry after divestiture
Zanfei, A. 22 (1993) 309
- Estimating the impact of R & D tax credit on strategic groups in the pharmaceutical industry
McCutchen Jr., W.W. 22 (1993) 337
- On high tech snobbery
Van Hulst, N. and B. Olds 22 (1993) 455
- The battle for biotechnology: Scientific and technological paradigms and the management of biotechnology in Britain in the 1980s
Balmer, B. and M. Sharp 22 (1993) 463

- In search of insights into the generation of techno-economic trends: Micro- and macro-constituencies in the microprocessor industry. 22 (1993) 479
Molina, A.H.
- Funding for innovation in small firms: The role of government 22 (1993) 507
Moore, I. and E. Gamsey
- New technology adoption in US telecommunications: The role of competitive pressures and firm-level inducements 22 (1993) 521
Majumdar, S.K. and S. Venkataraman
- Lessons from an economy with limited market functions: R & D in Hungary in the 1980s 22 (1993) 537
Balázás, K.
- Government influence on process of innovation in Europe and Japan 22 (1993) 101
Allen, T.J.
- The roles of science in technological innovation 22 (1993) 103
Gibbons, M. and R. Johnston
- The dominant role of users in the scientific instrument innovation process 22 (1993) 103
Von Hippel, E.
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 22 (1993) 104
Jasanoff, S.
- Government policy and technical choice in the West German Reactor Program 22 (1993) 104
Keck, O.
- Stages of development of industrial technology in a developing country: A model 22 (1993) 105
Linsu-Kim,
- Assessing basic research 22 (1993) 106
Martin, B.R. and J. Irvine
- Evaluations of innovation programs in selected European countries 22 (1993) 106
Meyer-Krahmer, F. and P. Motigny
- The consequences of dissent: Sociological reflections on the controversy of the low-dose effects 22 (1993) 108
Nowotny, H. and H. Hirsch
- Centers of decision in French science policy: The contrasting influences of scientific experts and administrators 22 (1993) 109
Papon, P.
- The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 22 (1993) 112
de Solla Price, D.
- Japanese-style evaluation systems for R & D projects: The MITI experience 22 (1993) 112
Tanaka, M.
- A patent-based cartography of technology 23 (1994) 1
Engelsman, E.C. and A.F.J. Van Raan
- The future of Soviet science 23 (1994) 113
Kontorovich, V.
- Technological systems and economic policy: the diffusion of factory automation in Sweden 23 (1994) 235
Carlsson, B. and S. Jacobsson
- Technometric evaluation and technology policy: the case of biodiagnostic kits in Israel 23 (1994) 281
Frenkel, A., T. Reiss, S. Maital, K. Koschatzky and H. Grupp
- American universities and technical advance in industry 23 (1994) 323
Rosenberg, N. and R.R. Nelson
- National research systems and change: the reaction of the British and German research system to the discovery of High-Tc Superconductors 23 (1994) 357
Jansen, D.
- The big picture: how (and when and why) the West grew rich 23 (1994) 547
Engerman, S.L.
- Cardwell's Law and the political economy of technological progress 23 (1994) 561
Mokyr, J.
- Learning and technical progress in the commuter aircraft industry: an analysis of Embraer's experience 23 (1994) 601
Frischtak, C.R.
- Complex technology and community: implications for policy and social science. 23 (1994) 613
Rycroft, R.W. and D.E. Kash
- Markets and organizations as coherent systems of innovations 23 (1994) 627
Amendola, M. and J.L. Gaffard

• Government

- Compulsory licensing with capital payments as an alternative to grants of monopoly in intellectual property
Kingston, W. 23 (1994) 661
- Government, globalisation and universities in Japanese biotechnology
Fransman, M. and S. Tanaka 24 (1995) 13
- Building bridges for innovation: the role of consultants in technology transfer
Bessant, J. and H. Rush 24 (1995) 97
- Models of priority-setting for public sector research
Stewart, J. 24 (1995) 115
- Technological infrastructure policy (TIP): creating capabilities and building markets
Justman, M. and M. Teubal 24 (1995) 259
- R & D consortia in the United States and Japan
Aldrich, H.E. and T. Sasaki 24 (1995) 301
- Collaborative, pre-competitive R & D and the firm
Quintas, P. and K. Guy 24 (1995) 325
- The impacts of research field evaluations on research practice
Luukkonen, T. 24 (1995) 349
- Do subsidies to cooperative R & D actually stimulate R & D investment and cooperation?
Fölster, S. 24 (1995) 403
- Technological competition, strategies of the firms and the choice of the first users: the case of road guidance technologies
Mangematin, V. and M. Callon 24 (1995) 441
- The Japanese software industry: the 'hub' structure approach
Baba, Y., S. Takai and Y. Mizuta 24 (1995) 473
- National priorities in academic research-strategic research and contract in renewable energies
Dalpé, R. and F. Anderson 24 (1995) 563
- Patenting of recombinant proteins: An analysis of tissue plasminogen activator (t-PA) in Europe, The United States and Japan
Thomas, S.M., K. Kimura and J.F. Burke 24 (1995) 645
- Evaluating technology innovation programs: the use of comparison groups to identify impacts
Brown, M.A., T.R. Curlee and S.R. Elliott 24 (1995) 669
- NASA, ozone, and policy-relevant science
Lambright, W.H. 24 (1995) 747
- Sources of imitation: improving bank process capabilities
McKendrick, D. 24 (1995) 783
- Does new technology adoption pay? Electronic switching patterns and firm-level performance in US telecommunications
Majumdar, S.K. 24 (1995) 803
- Quandaries in the economics of dual technologies and spillovers from military to civilian research and development
Cowan, R. and D. Foray 24 (1995) 851
- Research requirements for research impact assessment
Kostoff, R.N. 24 (1995) 869
- Regional technology coalitions. An essential dimension of national technology policy
Storper, M. 24 (1995) 895
- Racing behavior. Technological evolution in the high-end computer industry
Khanna, T. 24 (1995) 933
- Quality and efficiency of basic research in molecular biology: a bibliometric analysis of thirteen excellent research institutes
Herbertz, H. and B. Müller-Hill 24 (1995) 959
- Appropriability of technical innovations. An empirical analysis
Harabi, N. 24 (1995) 981
- Reforming Romania's national research system
Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard 25 (1997) 107
- The shift to knowledge-intensive production in the plastics processing industry and its implications for infrastructure development: three case studies - New York State, England and Israel
Yinnon, A.T. 25 (1997) 163
- Evaluating industrial modernization: Introduction to the theme issue
Shapira, P. and J.D. Roessner 25 (1997) 181

- Current practices in the evaluation of US industrial modernization programs 25 (1997) 185
Shapira, P., J. Youtie and J.D. Roessner
- Does manufacturing extension matter? An evaluation of the Industrial Technology Service in New York 25 (1997) 215
Oldsman, E.
- Performance benchmarking and measuring program impacts on customers: lessons from the Midwest Manufacturing Technology Center 25 (1997) 233
Luria, D. and E. Wiarda
- Does cooperation enhance competitiveness? Assessing the impacts of inter-firm collaboration 25 (1997) 247
Rosenfeld, S.A.
- The role of institution-building in US industrial modernization programs 25 (1997) 265
Kelley, M.R. and A. Arora
- A measure of federalism: assessing manufacturing technology centers 25 (1997) 281
Sabel, C.F.
- Issues and perspectives on evaluating manufacturing modernization programs 25 (1997) 309
Feller, I., A. Glasmeier and M. Mark
- Effectiveness of R & D subsidies - a sceptical note on the empirical literature 25 (1997) 321
Kauko, K.
- Assessing value-added contributions of university technology business incubators to tenant firms 25 (1997) 325
Mian, S.A.
- The innovation of agrochemicals: regulation and patent protection 25 (1997) 379
Hartnell, G.
- Innovation and the international diffusion of environmentally responsive technology 25 (1997) 549
Lanjouw, J.O. and A. Mody
- Government R & D expenditure and space: empirical evidence from five industrialized countries 25 (1997) 741
Sternberg, R.G.
- Strategies for technological development in South Korea and Taiwan: the case of semiconductors 25 (1997) 759
Chen, C.F. and G. Sewell
- Evaluation of national R & D projects in Korea 25 (1997) 805
Lee, M., B. Son and K. Om
- The social shaping of technology 25 (1997) 865
Williams, R. and D. Edge
- An evolutionary approach to technological innovation in agriculture: some preliminary remarks. 25 (1997) 933
Possas, M.L., S. Salles-Filho and J.M. da Silveira
- Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 25 (1997) 947
Mowery, D.C. and R.N. Langlois
- Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation 25 (1997) 967
Kingsley, G., B. Bozeman and K. Coker
- Features of policy making processes in Japan's Council for Science and Technology 25 (1997) 999
Tanaka, Y. and R. Hirasawa
- An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 25 (1997) 1027
Joly, P.B. and M.A. de Looze
- A catalytic and evolutionary approach to horizontal technology policies 25 (1997) 1161
Teubal, M.
- The French system of innovation in the oil industry: some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 25 (1997) 1243
Furtado, A.
- What is research collaboration? 26 (1998) 1
Katz, J.S. and B.R. Martin
- Policy for science for policy: A commentary on Lambright on ozone depletion and acid rain 26 (1998) 157
Pielke Jr., R.A. and M.M. Betsill
- Managing large-scale technology and inter-organized relations: the case of the Channel Tunnel 26 (1998) 169
Genus, A.
- Research consortia as a vehicle for basic research: the case of a fifth generation computer project in Japan 26 (1998) 191
Odagiri, H., Y. Nakamura and M. Shibuya

• Government

- From market magic to calypso science policy. A review of Terence Kealey's "*The Economic Laws of Scientific Research*"
David, P.A. 26 (1998) 229
- Determinants of patent rights: A cross-national study
Ginarte, J.C. and W.G. Park 26 (1998) 283
- The increasing linkage between U.S. technology and public science
Narin, F., K.S. Hamilton and D. Olivastro 26 (1998) 317
- Which way to go? Defence technology and the diversity of 'dual-use' technology transfer
Molas-Gallart, J. 26 (1998) 367
- Evaluating government-sponsored R & D consortia in Japan: who benefits and how?
Sakakibara, M. 26 (1998) 447
- Regional innovations systems: Institutional and organisational dimensions
Cooke, P., M. Gomez Uranga and G. Extebarria 26 (1998) 475
- On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms
Thirtle, C., P. Palladino and J. Piesse 26 (1998) 557
- Research joint ventures in the US
Vonortas, N.S. 26 (1998) 577
- Modeling systems of innovation: II. A framework for industrial cluster analysis in regions
Padmore, T. and H. Gibson 26 (1998) 625
- Improving the effectiveness of public-private R & D collaboration: case studies at a US weapons laboratory
Ham, R.M. and D.C. Mowery 26 (1998) 661
- Determinants of university participation in EU-funded R & D cooperative projects
Geuna, A. 26 (1998) 677
- Product complexity, innovation and industrial organization
Hobday, M. 26 (1998) 689
- Academic research and industrial innovation: An update of empirical findings
Mansfield, E. 26 (1998) 773
- Innovation systems and technological specialization in Latin America and the Caribbean
Alcorta, L. and W. Peres 26 (1998) 857
- Why science is endogenous: a debate with Paul David (and Ben Martin, Paul Romer, Chris Freeman, Luc Soete and Keith Pavitt)
Kealey, T. 26 (1998) 897
- Public policy measures to support new technology-based firms in the European Union
Storey, D.J. and B.S. Tether 26 (1998) 1037
- A dynamic analysis of the relations between the structure and the process of National Systems of Innovation using computer simulation: the case of the Dutch biotechnological sector
Janszen, F.H.A. and G.H. Degenaaars 27 (1998) 37
- The nature of long-run technological change: innovation, evolution and technological systems
Leoncini, R. 27 (1998) 75
- Managing innovation: The pursuit of competitive advantage and the design of innovation intense environments
Roberts, R. 27 (1998) 159
- Fiscal incentives to consumer innovation: the use of unleaded petrol in Europe
Stoneman, R. and G. Battisti 27 (1998) 187
- Technology acquisition, de-regulation and competitiveness: a study of Indian automobile industry
Narayanan, K. 27 (1998) 215
- A comparison of networks between industry and public sector research in materials technology and biotechnology
Peters, L., P. Groenewegen and N. Fiebelkorn 27 (1998) 255
- The benefits and costs of strong patent protection: a contribution to the current debate
Mazzoleni, R. and R.R. Nelson 27 (1998) 273
- Science policies as principal agent games. Institutionalization and path dependency in the relation between government and science
van der Meulen, B. 27 (1998) 397
- Analysis of in-house R & D centres of innovative firms in India
Sikka, P. 27 (1998) 429
- The inevitable limits of EU R & D funding
Pavitt, K. 27 (1998) 559

- The networks promoted by the framework programme and the questions they raise about its formulation and implementation
Larédo, P. 27 (1998) 589
- The difficulties in assessing the impact of EU framework programmes
Luukkonen, T. 27 (1998) 599
- Global cooperation in research
Georghiou, L. 27 (1998) 611
- Global interdependence or the European fortress? Technology policies in perspective
Väyrynen, R. 27 (1998) 627
- The changing structure of the US national innovation system: implications for international conflict and cooperation in R & D policy
Mowery, D.C. 27 (1998) 639
- Innovation policies within the framework of internationalization
Jacobs, D. 27 (1998) 711
- Linking Theory and Practice: Introduction
Mayntz, R. and U. Schimank 27 (1998) 747
- Mediation in the Dutch science system
van der Meulen, B. and A. Rip 27 (1998) 757
- Research institutions in France: between the Republic of science and the nation-state in crisis
Papon, P. 27 (1998) 771
- Socialist academies of sciences: the enforced orientation of basic research at user needs
Mayntz, R. 27 (1998) 781
- The role of funding agencies in the cognitive development of science
Braun, D. 27 (1998) 807
- The norms of entrepreneurial science: cognitive effects of the new university-industry linkages
Etzkowitz, H. 27 (1998) 823
- Science and the media
Weingart, P. 27 (1998) 869
- Transnational cooperation and policy networks in European science policy-making
Grande, E. and A. Peschke 28 (1999) 43
- Designing the future: the culture of new trends in science and technology
Guice, J. 28 (1999) 81
- The policy implications of the globalisation of innovation
Archibugi, D. and S. Iammarino 28 (1999) 317
- Failure and success: the fate of industrial policy in Latin America and South East Asia
Etzkowitz, H. and S.N. Brisolla 28 (1999) 337
- Patterns of restructuring in research, development and innovation activities in central and eastern European countries: an analysis based on S & T indicators
Radosevic, S. and L. Auriol 28 (1999) 351
- Public research and industrial innovations in Germany
Beise, M. and H. Stahl 28 (1999) 397
- The implications of network use, production network externalities and public networking programmes for firm's productivity
Koski, H. 28 (1999) 423
- Interdependencies between the science and technology infrastructure and innovation activities in German regions: empirical findings and policy consequences
Blind, K. and H. Grupp 28 (1999) 451
- The efficacy of different modes of funding research: perspectives from Australian data on the biological sciences
Bourke, P. and L. Butler 28 (1999) 489
- In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge flows in information and communication technologies research
Tijssen, R.J.W. and E. van Wijk 28 (1999) 519
- Territorial concentration and evolution of science and technology activities in the European Union: a descriptive analysis
Zitt, M., R. Barré, A. Sigogneau and F. Laville 28 (1999) 545
- An integrated network approach to systems of innovation - the case of robotics in Japan
Kumaresan, N. and K. Miyazaki 28 (1999) 563

• Government

- The rise and fall of 'Supernet': a case study of technology transfer policy for smaller firms
Bessant, J. 28 (1999) 601
- Environmental policies and innovation: a knowledge-based perspective on cooperative approaches
Aggeri, F. 28 (1999) 699
- Systems option for sustainable development - effect and limit of the Ministry of International Trade and Industry's efforts to substitute technology for energy
Watanabe, C. 28 (1999) 719
- New perspectives on the innovation strategies of multinational enterprises: lessons for technology policy in Europe
Meyer-Krahmer, F. and G. Reger 28 (1999) 749
- The construction of the techno-economic: networks vs. paradigms
Green, K., R. Hull, A. McMeekin and V. Walsh 28 (1999) 775
- The microeconomics of manufacturing modernization programs
Feller, I. and J.P. Nelson 28 (1999) 805
- Making sense of diversity and reluctance: academic-industrial relations and intellectual property
Rappert, B., A. Webster and D. Charles 28 (1999) 871

Medical technology

- The significance of technological change in medicine: An introduction
Blume, S.S. 14 (1985) 173
- Innovation in pharmaceuticals: Industrial R & D in the early twentieth century
Liebenau, J. 14 (1985) 179
- From the gene to the general practitioner: A paradigm of research
Robinson, D.M., J. Moscovitz and C.J.M. Lenfant 14 (1985) 189
- The influence of health service procurement policy on research and development in the UK medical capital equipment industry
Hutton, J. and K. Hartley 14 (1985) 205
- CT scanning and ultrasonography: A comparison of two lines of development and dissemination
Berggren, U. 14 (1985) 213
- Scientific evidence and the abandonment of medical technology: A study of eight drugs
Finkelstein, S.N. and D.L. Gilbert 14 (1985) 225

Universities and basic research

- Industries and academic freedom
Casimir, G.B. 1 (1971/72) 3
- Priorities for research and technological development
Krauch, H. 1 (1971/72) 28
- The incorporation of health and welfare risks into technological forecasts
Sinclair, C. 1 (1971/72) 40
- The importance of graph theory in research planning
Czayka, L. 1 (1971/72) 60
- The appraisal and control of complex development projects
Gardner, N.K. 1 (1971/72) 122
- The use of technological forecasts in government planning
Coenen, R. 1 (1971/72) 156
- Innovation in electron-optical instruments - two British case histories
Jervis, P. 1 (1971/72) 174
- The ESTEC project control system
Gehriger, H. 1 (1971/72) 274
- Science, technology and regional economic development
Clark, N.G. 1 (1971/72) 296
- The regional distribution of research and development (as note)
Müller, K. and R. Nejedly 1 (1971/72) 320

Life cycle of basic research – an approach to the quantitative analysis of R & D activity Yamada, K. and E. Otaki	1 (1971/72) 352
Antibiotic technology in agriculture Smart, C.C. and P.K. Marstrand	1 (1971/72) 364
Science policy-needed research (as note) Lamson, R.W.	1 (1971/72) 386
Public accountability and the project-grant mechanism Stein, B.R.	2 (1973/74) 2
Decision-making in big science – the development of the high-voltage electron microscope Leach, B.	2 (1973/74) 56
An operational, policy-oriented research categorization scheme Falk, C.E.	2 (1973/74) 186
Behavioural aspects of research management-a review Blume, S.S.	3 (1974/75) 40
High-voltage electron microscopy in the UK Hirsch, P.B.	3 (1974/75) 78
A refinement of extrinsic criteria for scientific choice Moravcsik, M.J.	3 (1974/75) 88
Science and technology in Sweden: the Fabians versus Europe Dörfer, I.N.H.	3 (1974/75) 134
Some characteristic aspects of science policy in the Federal Republic of Germany Lübbe, H.	3 (1974/75) 172
Scientific cities Inhaber, H.	3 (1974/75) 182
The roles of science in technological innovation Gibbons, M. and R. Johnston	3 (1974/75) 220
Management, politics and science: A non-separable system Blankenship, L.V.	3 (1974/75) 244
R & D coordination in industry and university Steck, R.	3 (1974/75) 360
Japanese technology policy: achievements and perspectives Long, T.D.	4 (1975) 2
The European molecular biology organisation: a case-study of decision-making in science policy Drath, L., M. Gibbons and J. Ronayne	4 (1975) 56
Phenomenology and models of the growth of science Moravcsik, M.J.	4 (1975) 80
Government politics towards industrial innovation: a review Pavitt, K. and W. Walker	5 (1976) 11
West German science policy since the early 1960s: trends and objectives Keck, O.	5 (1976) 116
The Dutch output of publications in physics Chang, H. and D. Dieks	5 (1976) 380
The super-computer project: a case study in the interaction of science, government and industry in the UK Drath, P., M. Gibbons and R. Johnston	6 (1977) 2
The crisis in particle physics Moravcsik, M.J.	6 (1977) 78
Changes in centralization of science Inhaber, H.	6 (1977) 178
Particle physics – an alternative view Polkinghorne, J.C.	6 (1977) 412
Scientific and political orientation of American scientists Anand, H.R. and J. Haberer	7 (1978) 26
The leading edge of science in Canada Inhaber, H.	7 (1978) 88
Government aid for the development of innovative technology: Lessons from the French Sirbu Jr., M.A.	7 (1978) 176

• Universities and basic research

- The dynamics of scientific manpower and output 8 (1979) 26
Moravcsik, M.J. and S.G. Gibson
- Frameworks for integrating interdisciplinary research 8 (1979) 70
Rossini, F.A. and A.L. Porter
- European policies on space science and technology 1960-1978 8 (1979) 204
Schwarz, M.
- Influence of technology on science: A comment on some experiences at IBM research 8 (1979) 244
Gazis, D.C.
- A quantitative analysis of the Science Research Council's policy of 'selectivity and concentration' 8 (1979) 306
Farina, C. and M. Gibbons
- R & D strategy in the U.S. pharmaceutical industry 8 (1979) 364
Schnee, J.D.
- Centres of decision in French science policy: The contrasting influences of scientific experts and administrators 8 (1979) 384
Papon, P.
- Dimensions of R & D location in the United States 9 (1980) 2
Malecki, E.J.
- The power and the glory: A note on patents and scientific authors 9 (1980) 104
Macioti, M.
- Organizational aspects of Nigeria's research system 9 (1980) 148
Clark, N.
- An analysis of factors influencing the utilization of contract research in a developing country, Korea 9 (1980) 174
Lee, J. and A.H. Rubenstein
- The State and technical innovation: A case study of the electrical vehicle in France 9 (1980) 358
Callon, M.
- University research grants management: Accountability viewed as an exchange- the U.S. case 10 (1981) 46
Arnow, K.S.
- Commercial innovations from university faculty 10 (1981) 108
Roberts, E.B. and D.H. Peters
- Production of microbial protein: A study of the development and introduction of a new technology 10 (1981) 148
Marstrand, P.K.
- The impact of the Science Research Council's policy of selectivity and concentration on average levels of research support: 1965-1974 10 (1981) 202
Farina, C. and M. Gibbons
- Scientists as consultants to industry in a developing country: An analysis of their roles and economic effectiveness. 10 (1981) 244
Avriel, D.
- Measuring the contribution of biomedical research to the production of health 11 (1982) 3
Vehorn, C.L., J.S. Landefeld and D.P. Wagner
- A note on the time lag between the life cycle of a discipline and resource allocation in Japan 11 (1982) 133
Tsukahara, S. and K. Yamada
- The climate for innovation in industry: the role of management attitudes and practices in consumer electronics 11 (1982) 209
Rosenbloom, R.S. and W.J. Abernathy
- An assessment of the benefits of the diffusion of an innovation 11 (1982) 261
Reekie, W.D.
- The role of government in supporting measurement standards for high-technology industries 11 (1982) 311
Tassey, G.
- The evaluation of technology R & D: A continuing dilemma 11 (1982) 347
DeLeon, P.
- Research priorities and science policy objectives for the management of soils in arid lands 11 (1982) 373
Hallsworth, E.G.
- A bibliometric analysis of pharmaceutical research 12 (1983) 15
Koenig, M.E.D.
- Assessing basic research: Some partial indicators of scientific progress in radio astronomy 12 (1983) 61
Martin, B.R. and J. Irvine
- University-to-industry advanced technology transfer: A case study 12 (1983) 121
Goldhor, R.S. and R.T. Lund
- The role of science in technology transfer 12 (1983) 287
Moravcsik, M.J.

- Peer Review and national need 12 (1983) 317
 Chapman, I.D. and C. Farina
- Career patterns of scientists in peripheral countries 12 (1983) 341
 Herzog, A.J.
- The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 13 (1984) 1
 de Solla Price, D.
- CERN: Past performance and future prospects I. CERN's position in world high-energy physics 13 (1984) 183
 Martin, B.R. and J. Irvine
- Invention and innovation in the chemical industry: Demand-pull or discovery-push 13 (1984) 211
 Walsh, V.
- CERN: Past performance and future prospects II. The scientific performance of the CERN accelerators 13 (1984) 247
 Irvine, J. and B.R. Martin
- CERN: Past performance and future prospects III. CERN and the future of world high-energy physics 13 (1984) 311
 Martin, B.R. and J. Irvine
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 14 (1985) 23
 Jasanoff, S.
- The use of bibliometric data for the measurement of university research 14 (1985) 131
 Moed, H.F., W.J.M. Burger, J.G. Frankfort and A.F.J. Van Raan
- The significance of technological change in medicine: An introduction 14 (1985) 173
 Blume, S.S.
- From the gene to the general practitioner: A paradigm of research 14 (1985) 189
 Robinson, D.M., J. Moscovitz and C.J.M. Lenfant
- The strategy of university research laboratories in France 14 (1985) 345
 Castagnos, J.C. and C. Echevin
- Two perceptions of science development 15 (1986) 1
 Moravcsik, M.J.
- Evaluation of performance of health research in the Netherlands 15 (1986) 33
 Rigter, H.
- The war on poverty and social science research 1965-1980 15 (1986) 53
 Haveman, R.
- The process of technology transfer to the new biomedical and pharmaceutical firm 15 (1986) 107
 Roberts, E.B. and O. Hauptman
- Joint R & D: The case of microelectronics and Computer Technology Corporation 15 (1986) 219
 Peck, M.J.
- An experiment in science mapping for research planning 15 (1986) 233
 Healy, P., H. Rothman and P.K. Hoch
- Between dirigism and laissez-faire: Effects of implementing the science policy priority for biotechnology in the Netherlands 15 (1986) 253
 Rip, A. and A.J. Nederhof
- Environmental research in Israel: On the need for a novel organizational change 16 (1987) 17
 Amir, S.
- Communication within a national R & D system: A study of iron and steel in Sweden 16 (1987) 29
 Höglund, L. and O. Persson
- Patents as indicators of corporate technological strength 16 (1987) 143
 Narin, F., E. Noma and R. Perry
- A study of innovation in the pesticide industry: Analysis of the innovation record of an industrial sector 16 (1987) 175
 Achilladelis, B., A. Schwarzkopf and M. Cines
- Assessing basic research: Reappraisal and update of an evaluation of four radio astronomy observatories 16 (1987) 213
 Irvine, J., B.R. Martin, J. Abraham and T. Peacock
- R & D laboratory classification and public policy: The effect of environmental context on laboratory behavior. 16 (1987) 229
 Crow, M. and B. Bozeman
- The new agricultural research and technology transfer policy agenda 16 (1987) 315
 Feller, I., P. Madden, L. Kaltreider, D. Moore and L. Sims
- University-industry relationships in the life sciences: Implications for students and post-doctoral fellows 16 (1987) 327
 Gluck, M.E., D. Blumenthal and M.A. Soto

• Universities and basic research

- Citations in patents to the basic research literature 17 (1988) 65
 Collins, P. and S. Wyatt
- Bibliometric analysis of U.S. Pharmaceutical industry research performance 17 (1988) 139
 Narin, F. and R.P. Rozek
- The commercial application of a scientific discovery: The case of the hybridoma technique 17 (1988) 155
 Mackenzie, M., A. Cambrosio and P. Keating
- Determinants of research output in economics departments in British universities 17 (1988) 171
 Johnes, G.
- The national self-preoccupation of American scientists: An empirical view 17 (1988) 203
 Frame, J.D. and F. Narin
- Towards the 'cognitive management' of a research institute 17 (1988) 225
 Courtial, J.P. and J.C. Remy
- The limits of science and the scientific method 17 (1988) 293
 Moravcsik, M.J.
- Modelling the determination of research output in British universities 17 (1988) 315
 Hare, P. and G. Wyatt
- The contribution of university research to the technological innovation of the German economy: Societal autodynamic and political guidance 17 (1988) 329
 Schimank, U.
- Linking university and industry: An organizational experience in Mexico 17 (1988) 341
 Waissbluth, M., G. Cadena and J.L. Solleiro
- Regularities in the growth of high technology industries in regions 18 (1989) 135
 Eto, H. and M. Fujita
- Exploring the cost-efficiency of basic research funding in chemistry 18 (1989) 165
 Averch, H.A.
- Words and co-words as indicators of intellectual organization 18 (1989) 209
 Leydesdorff, L.
- University research performance indicators in practice: The University Grants Committee's evaluation of British universities, 1985-1986 18 (1989) 255
 Phillimore, A.J.
- The dynamics of technological innovation: The case of the chemical industry 19 (1990) 1
 Achilladelis, B., A. Schwarzkopf and M. Cines
- An exploration of the science base of recent technology 19 (1990) 61
 Van Vianen, B.G., H.F. Moed and A.F.J. Van Raan
- U.S. technological leadership: Where did it come from and where did it go? 19 (1990) 117
 Nelson, R.R.
- Why do firms do basic research (with their own money)? 19 (1990) 165
 Rosenberg, N.
- Capitalism as an engine of progress 19 (1990) 193
 Nelson, R.R.
- Prediction of scientific performance in clinical medicine 19 (1990) 239
 Spangenberg, J.F.A., R. Starmans, Y.W. Bally, B. Breemhaar, F.J.N. Nijhuis and C.A.F. van Dorp
- Transputers and transputer-based parallel computers: Sociotechnical constituencies and the build-up of British-European capabilities in information technologies 19 (1990) 309
 Molina, A.H.
- Universities as engines of R & D-based economic growth: They think they can 19 (1990) 335
 Feller, I.
- The economic impact of industry-funded university R & D 19 (1990) 349
 Berman, E.M.
- Quality evaluations in the management of basic and applied research 19 (1990) 357
 Luukkonen, T. and B. Ståhle
- Between accommodation and orchestration: The implementation of the science policy priority for biotechnology in the Netherlands 19 (1990) 379
 Nederhof, A.J.
- Utility of bibliometric analysis for research policy: A case study of Spanish research in Neuroscience 19 (1990) 457
 Gómez, I., E. Sanz and A. Méndez

- Scientific and Technological Information Banks for the network management of research
Turner, W.A., B. Michelet and J.P. Courtial 19 (1990) 467
- Behind the scenes of performance: Performance, practice and management in medical research
Prins, A.A.M. 19 (1990) 517
- University-industry relationship: How does the Belgian academic community feel about it?
Van Dierdonck, R., K. Debackere and B. Engelen 19 (1990) 551
- Academic research and industrial innovation
Mansfield, E. 20 (1991) 1
- The individual inventor and the role of entrepreneurship: A survey of the Canadian evidence
Amesse, F., C. Desranleau, H. Etemad, Y. Fortier and L. Seguin-Dulude 20 (1991) 13
- Evaluating the funding of strategic science: Some lessons from British experience
Senker, J. 20 (1991) 29
- What makes basic research economically useful?
Pavitt, K. 20 (1991) 109
- Using academic technology: Transfer methods and licensing incidence in the commercialization of American
diagnostics imaging equipment research, 1954-1988
Mitchell, W. 20 (1991) 203
- Conflicting perceptions of plans for an academic center
Myers, G. 20 (1991) 217
- The governance of innovation: Vertical integration and collaborative arrangements in the biotechnology industry
Pisano, G.P. 20 (1991) 237
- Technical and political change in basic research: The case of the European X-Ray Observatory Satellite
Barry, A. 20 (1991) 261
- Networks of innovators: A synthesis of research issues
Freeman, C. 20 (1991) 499
- A quantitative assessment of interdisciplinary structures in science and technology: Co-classification analysis of energy
research
Tijssen, R.J.W. 21 (1992) 27
- Agreements between firms and the technological life cycle model: Evidence from information technologies
Cainarca, G.C., M.G. Colombo and S. Mariotti 21 (1992) 45
- The U.S. national innovation system: Origins and prospects for change
Mowery, D.C. 21 (1992) 125
- Origins of Japanese industrial research: Pre-war government policy and in-house research at Mitsubishi Nagasaki
Shipyards
Fukasaku, Y. 21 (1992) 197
- Status report: Linkage between technology and science
Narin, F. and D. Olivastro 21 (1992) 237
- Academic research and industrial innovation: A further note
Mansfield, E. 21 (1992) 295
- Scientific instrumentation and university research
Rosenberg, N. 21 (1992) 381
- Competitive advantages from in-house scientific research: The US pharmaceutical industry in the 1980s
Gambardella, A. 21 (1992) 391
- The German R & D system in transition: Empirical results and prospects of future development
Meyer-Krahmer, F. 21 (1992) 423
- High temperature superconductivity research in the USSR
Berry, M.J. 21 (1992) 513
- Co-word based science maps of chemical engineering. Part I: Representations by direct multidimensional scaling
Peters, H.P.F. and A.F.J. Van Raan 22 (1993) 23
- Co-word-based science maps of chemical engineering. Part II: Representations by combined clustering and
multidimensional scaling
Peters, H.P.F. and A.F.J. Van Raan 22 (1993) 47
- Invention and innovation in the chemical industry: Demand-pull or discovery-push?
Walsh, V. 22 (1993) 115
- The dynamics of technological innovation: The sector of antibacterial medicines
Achilladelis, B. 22 (1993) 279

• Universities and basic research

- A bibliometric analysis of six economics research groups: A comparison with peer review 22 (1993) 353
 Nederhof, A.J. and A.F.J. Van Raan
- The battle for biotechnology: Scientific and technological paradigms and the management of biotechnology in Britain in the 1980s 22 (1993) 463
 Balmer, B. and M. Sharp
- In search of insights into the generation of techno-economic trends: Micro- and macro-constituencies in the microprocessor industry. 22 (1993) 479
 Molina, A.H.
- Lessons from an economy with limited market functions: R & D in Hungary in the 1980s 22 (1993) 537
 Balázás, K.
- The roles of science in technological innovation 22 (1993) 103
 Gibbons, M. and R. Johnston
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany 22 (1993) 104
 Jasanoff, S.
- Stages of development of industrial technology in a developing country: A model 22 (1993) 105
 Linsu-Kim,
- Assessing basic research 22 (1993) 106
 Martin, B.R. and J. Irvine
- Patents as indicators of corporate technological strength 22 (1993) 108
 Narin, F., E. Noma and R. Perry
- The science/technology relationship, the craft of experimental science, and policy for the improvement of high technology innovation 22 (1993) 112
 de Solla Price, D.
- A patent-based cartography of technology 23 (1994) 1
 Engelsman, E.C. and A.F.J. Van Raan
- The future of Soviet science 23 (1994) 113
 Kontorovich, V.
- Tracking areas of strategic importance using scientometric journal mappings 23 (1994) 217
 Leydesdorff, L., S. Cozzens and P. Van den Besselaar
- Technological systems and economic policy: the diffusion of factory automation in Sweden 23 (1994) 235
 Carlsson, B. and S. Jacobsson
- Technometric evaluation and technology policy: the case of biodiagnostic kits in Israel 23 (1994) 281
 Frenkel, A., T. Reiss, S. Maital, K. Koschatzky and H. Grupp
- American universities and technical advance in industry 23 (1994) 323
 Rosenberg, N. and R.R. Nelson
- National research systems and change: the reaction of the British and German research system to the discovery of High-Tc Superconductors 23 (1994) 357
 Jansen, D.
- Japanese corporations, scientific research and globalization 23 (1994) 375
 Hicks, D., T. Ishizuka, P. Keen and S. Sweet
- Basic research inside the firm: lessons from an in-depth case study 23 (1994) 413
 Quéré, M.
- Institutional variations in problem choice and persistence among scientists in an emerging field 23 (1994) 425
 Debackere, K. and M.A. Rappa
- Exploring the science and technology interface: inventor-author relations in laser medicine research 23 (1994) 443
 Noyons, E.C.M., A.F.J. Van Raan, H. Grupp and U. Schmoch
- Incentives to innovate and the sources of innovation: the case of scientific instruments 23 (1994) 459
 Riggs, W. and E. Von Hippel
- The relationship between science and technology 23 (1994) 477
 Brooks, H.
- Toward a new economics of science 23 (1994) 487
 Dasgupta, P. and P.A. David
- The changing technology of technological change: general and abstract knowledge and the division of innovative labour 23 (1994) 523
 Arora, A. and A. Gambardella
- Variation-selection in the innovation of the retractable airplane landing gear: the Northrop 'anomaly' 23 (1994) 575
 Vincenti, W.G.

- Economic growth and the chemical industry 23 (1994) 583
Landau, R.
- Learning and technical progress in the commuter aircraft industry: an analysis of Embraer's experience 23 (1994) 601
Frischtak, C.R.
- Making sense of diversity: public-private sector research linkage in three technologies 23 (1994) 673
Faulkner, W. and J. Senker
- Cooperative research in a newly industrialized country: Taiwan 23 (1994) 697
Wang, J.C.
- Government, globalisation and universities in Japanese biotechnology 24 (1995) 13
Fransman, M. and S. Tanaka
- Models of priority-setting for public sector research 24 (1995) 115
Stewart, J.
- Scientists at major and minor universities: mobility along the prestige continuum 24 (1995) 137
Debackere, K. and M.A. Rappa
- On the sources and significance of interindustry differences in technological opportunities 24 (1995) 185
Klevorick, A.K., R.C. Levin, R.R. Nelson and S.G. Winter
- R & D consortia in the United States and Japan 24 (1995) 301
Aldrich, H.E. and T. Sasaki
- Collaborative, pre-competitive R & D and the firm 24 (1995) 325
Quintas, P. and K. Guy
- The impacts of research field evaluations on research practice 24 (1995) 349
Luukkonen, T.
- Analysis of biomedical research in Spain 24 (1995) 459
Gómez, I., M.T. Fernández, M.A. Zulueta and J. Camí
- The Japanese software industry: the 'hub' structure approach 24 (1995) 473
Baba, Y., S. Takai and Y. Mizuta
- National priorities in academic research-strategic research and contract in renewable energies 24 (1995) 563
Dalpé, R. and F. Anderson
- Patenting of recombinant proteins: An analysis of tissue plasminogen activator (t-PA) in Europe, The United States and Japan 24 (1995) 645
Thomas, S.M., K. Kimura and J.F. Burke
- Research requirements for research impact assessment 24 (1995) 869
Kostoff, R.N.
- Quality and efficiency of basic research in molecular biology: a bibliometric analysis of thirteen excellent research institutes 24 (1995) 959
Herbertz, H. and B. Müller-Hill
- Reforming Romania's national research system 25 (1997) 107
Eisemon, T.O., I. Ionescu-Sisest, C.H. Davis and J. Gaillard
- The shift to knowledge-intensive production in the plastics processing industry and its implications for infrastructure development: three case studies - New York State, England and Israel 25 (1997) 163
Yinnon, A.T.
- Evaluating industrial modernization: Introduction to the theme issue 25 (1997) 181
Shapira, P. and J.D. Roessner
- Current practices in the evaluation of US industrial modernization programs 25 (1997) 185
Shapira, P., J. Youtie and J.D. Roessner
- Does manufacturing extension matter? An evaluation of the Industrial Technology Service in New York 25 (1997) 215
Oldsman, E.
- A measure of federalism: assessing manufacturing technology centers 25 (1997) 281
Sabel, C.F.
- Issues and perspectives on evaluating manufacturing modernization programs 25 (1997) 309
Feller, I., A. Glasmeier and M. Mark
- Assessing value-added contributions of university technology business incubators to tenant firms 25 (1997) 325
Mian, S.A.
- R & D strategy in a techno-economic network: Alzheimer's disease therapeutic strategies 25 (1997) 337
Penan, H.
- A morphology of Japanese and European corporate research networks 25 (1997) 359
Hicks, D.M., P.A. Isard and B.R. Martin

• Universities and basic research

- The evaluation of national performance in selected priority areas using scientometric methods 25 (1997) 431
Leydesdorff, L. and É. Gauthier
- Research and the practice of publication in industries 25 (1997) 587
Godin, B.
- Modelling the persistence of organizations in an emerging field: the case of hepatitis C 25 (1997) 671
Clarysse, B., K. Debackere and M.A. Rappa
- The publication output and impact of academic chemistry research in the Netherlands during the 1980s: bibliometric analyses and policy implications. 25 (1997) 819
Moed, H.F. and F.Th. Hesselink
- 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration 25 (1997) 843
Lee, Y.S.
- The social shaping of technology 25 (1997) 865
Williams, R. and D. Edge
- Spinning off and spinning on(?): the federal government role in the development of the US computer software industry 25 (1997) 947
Mowery, D.C. and R.N. Langlois
- Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation 25 (1997) 967
Kingsley, G., B. Bozeman and K. Coker
- An analysis of innovation strategies and industrial differentiation through patent applications: the case of plant biotechnology 25 (1997) 1027
Joly, P.B. and M.A. de Looze
- The modern university: contributor to industrial innovation and recipient of industrial R & D support 25 (1997) 1047
Mansfield, E. and J.Y. Lee
- Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 25 (1997) 1081
Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi
- Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 25 (1997) 1121
Laursen, K.
- A catalytic and evolutionary approach to horizontal technology policies 25 (1997) 1161
Teubal, M.
- The French system of innovation in the oil industry: some lessons about the role of public policies and sectoral patterns of technological change in innovation networking 25 (1997) 1243
Furtado, A.
- Unravelling the cognitive and interorganisational structure of public/private R & D networks: A case study of catalysis research in the Netherlands 25 (1997) 1277
Tijssen, R.J.W. and J.C. Korevaar
- What is research collaboration? 26 (1998) 1
Katz, J.S. and B.R. Martin
- Policy for science for policy: A commentary on Lambright on ozone depletion and acid rain 26 (1998) 157
Pielke Jr., R.A. and M.M. Betsill
- Research consortia as a vehicle for basic research: the case of a fifth generation computer project in Japan 26 (1998) 191
Odagiri, H., Y. Nakamura and M. Shibuya
- From market magic to calypso science policy. A review of Terence Kealey's *"The Economic Laws of Scientific Research"* 26 (1998) 229
David, P.A.
- New, technology-based firms in innovation networks symplectic and generative impacts 26 (1998) 263
Autio, E.
- Internal R & D expenditures and external technology sourcing 26 (1998) 303
Veugelers, R.
- The increasing linkage between U.S. technology and public science 26 (1998) 317
Narin, F., K.S. Hamilton and D. Olivastro
- Growth and inventiveness in technology-based spin-off firms 26 (1998) 331
Dahlstrand, Å.L.
- Present at the biotechnological revolution: transformation of technological identity for a large incumbent pharmaceutical firm 26 (1998) 429
Zucker, L.G. and M.R. Darby
- Regional innovations systems: Institutional and organisational dimensions 26 (1998) 475
Cooke, P., M. Gomez Uranga and G. Extbarria

- On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms
Thirtle, C., P. Palladino and J. Piesse 26 (1998) 557
- Modeling systems of innovation: II. A framework for industrial cluster analysis in regions
Padmore, T. and H. Gibson 26 (1998) 625
- Determinants of university participation in EU-funded R & D cooperative projects
Geuna, A. 26 (1998) 677
- Institutions and the map of science: matching university departments and fields of research
Bourke, P. and L. Butler 26 (1998) 711
- Academic research and industrial innovation: An update of empirical findings
Mansfield, E. 26 (1998) 773
- Innovation systems and technological specialization in Latin America and the Caribbean
Alcorta, L. and W. Peres 26 (1998) 857
- Why science is endogenous: a debate with Paul David (and Ben Martin, Paul Romer, Chris Freeman, Luc Soete and Keith Pavitt)
Kealey, T. 26 (1998) 897
- Public policy measures to support new technology-based firms in the European Union
Storey, D.J. and B.S. Tether 26 (1998) 1037
- A dynamic analysis of the relations between the structure and the process of National Systems of Innovation using computer simulation; the case of the Dutch biotechnological sector
Janszen, F.H.A. and G.H. Degenaaars 27 (1998) 37
- The nature of long-run technological change: innovation, evolution and technological systems
Leoncini, R. 27 (1998) 75
- Comparative analysis of a set of bibliometric indicators and central peer review criteria. Evaluation of condensed matter physics in the Netherlands
Rinia, E.J., Th.N. van Leeuwen, H.G. van Vuren and A.F.S. Van Raan 27 (1998) 95
- A comparison of networks between industry and public sector research in materials technology and biotechnology
Peters, L., P. Groenewegen and N. Fiebelkorn 27 (1998) 255
- Assessment of Flemish R & D in the field of information technology. A bibliometric evaluation based on publication and patent data, combined with OECD research input statistics
Noyons, E.C.M., M. Luwel and H.F. Moed 27 (1998) 285
- Analysis of in-house R & D centres of innovative firms in India
Sikka, P. 27 (1998) 429
- The inevitable limits of EU R & D funding
Pavitt, K. 27 (1998) 559
- Competitiveness and cohesion - are the two compatible?
Sharp, M. 27 (1998) 569
- The networks promoted by the framework programme and the questions they raise about its formulation and implementation
Larédo, P. 27 (1998) 589
- Global cooperation in research
Georghiou, L. 27 (1998) 611
- The changing structure of the US national innovation system: implications for international conflict and cooperation in R & D policy
Mowery, D.C. 27 (1998) 639
- The economic impact of Canadian university R & D
Martin, F. 27 (1998) 677
- A cognitive model of innovation
Nightingale, P. 27 (1998) 689
- Linking Theory and Practice: Introduction
Mayntz, R. and U. Schimank 27 (1998) 747
- Mediation in the Dutch science system
van der Meulen, B. and A. Rip 27 (1998) 757
- Research institutions in France: between the Republic of science and the nation-state in crisis
Papon, P. 27 (1998) 771
- Socialist academies of sciences: the enforced orientation of basic research at user needs
Mayntz, R. 27 (1998) 781

• Universities and basic research

- The social shaping of the national science base
Pavitt, K. 27 (1998) 793
- The role of funding agencies in the cognitive development of science
Braun, D. 27 (1998) 807
- The norms of entrepreneurial science: cognitive effects of the new university-industry linkages
Etzkowitz, H. 27 (1998) 823
- Science-based technologies: university-industry interactions in four fields
Meyer-Krahmer, F. and U. Schmoch 27 (1998) 835
- Experimental implementation as a linking mechanism in the process of innovation
van den Daele, W. and W. Krohn 27 (1998) 853
- Science and the media
Weingart, P. 27 (1998) 869
- The impact of transaction costs on the institutional structuration of collaborative academic research
Landry, R. and N. Amara 27 (1998) 901
- Transnational cooperation and policy networks in European science policy-making
Grande, E. and A. Peschke 28 (1999) 43
- The policy implications of the globalisation of innovation
Archibugi, D. and S. Iammarino 28 (1999) 317
- Failure and success: the fate of industrial policy in Latin America and South East Asia
Etzkowitz, H. and S.N. Brisolla 28 (1999) 337
- Patterns of restructuring in research, development and innovation activities in central and eastern European countries:
an analysis based on S & T indicators
Radosevic, S. and L. Auriol 28 (1999) 351
- Public research and industrial innovations in Germany
Beise, M. and H. Stahl 28 (1999) 397
- The implications of network use, production network externalities and public networking programmes for firm's
productivity
Koski, H. 28 (1999) 423
- Interdependencies between the science and technology infrastructure and innovation activities in German regions:
empirical findings and policy consequences
Blind, K. and H. Grupp 28 (1999) 451
- The efficacy of different modes of funding research: perspectives from Australian data on the biological sciences
Bourke, P. and L. Butler 28 (1999) 489
- The self-similar science system
Katz, J.S. 28 (1999) 501
- In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge
flows in information and communication technologies research
Tijssen, R.J.W. and E. van Wijk 28 (1999) 519
- Territorial concentration and evolution of science and technology activities in the European Union: a descriptive
analysis
Zitt, M., R. Barré, A. Sigogneau and F. Laville 28 (1999) 545
- An integrated network approach to systems of innovation - the case of robotics in Japan
Kumaresan, N. and K. Miyazaki 28 (1999) 563
- New perspectives on the innovation strategies of multinational enterprises: lessons for technology policy in Europe
Meyer-Krahmer, F. and G. Reger 28 (1999) 749
- Innovation and inter-firm linkages: new implications for policy
Nooteboom, B. 28 (1999) 791
- The microeconomics of manufacturing modernization programs
Feller, I. and J.P. Nelson 28 (1999) 805
- The rise of clusters of innovative industries in Belgium during the industrial epoch
Boschma, R.A. 28 (1999) 851

- Making sense of diversity and reluctance: academic-industrial relations and intellectual property 28 (1999) 871
 Rappert, B., A. Webster and D. Charles

Assessment, planning and management

- The incorporation of health and welfare risks into technological forecasts 1 (1971/72) 40
 Sinclair, C.
- The use of technological forecasts in government planning 1 (1971/72) 156
 Coenen, R.
- Antibiotic technology in agriculture 1 (1971/72) 364
 Smart, C.C. and P.K. Marstrand
- Technological assessment of external effect 2 (1973/74) 18
 Ternière-Buchot, P.F.
- Application of PPBS to R & D planning 2 (1973/74) 40
 Gresser, K.
- Decision-making in big science – the development of the high-voltage electron microscope 2 (1973/74) 56
 Leach, B.
- A note on the implementation and use of models for R & D planning 2 (1973/74) 72
 Näslund, B. and B. Sellsedt
- A dying debate 2 (1973/74) 88
 Koch, C.
- Priorities in research policy 2 (1973/74) 94
 Ahrens, H.J., R. Coenen, L. Czayka, I. Karst, H. Weyand, G. Beker, B. Wingert, H.G. Kruse, H. Krauch, F. Niwa,
 G. Bechmann, I. v. Berg, G. Brosi and H. Folkers
- Research planning in French science policy: an assessment 2 (1973/74) 226
 Papon, P.
- The multi-role combat aircraft (MRCA): a case study in European collaboration 2 (1973/74) 280
 Walker, W.B.
- Some remarks and proposals concerning the planning and performance of technology assessment studies 2 (1973/74) 306
 Paschen, H. and K. Gresser
- US Government support for civilian technology: economic theory versus political practice 3 (1974/75) 2
 Eads, G.
- Behavioural aspects of research management-a review 3 (1974/75) 40
 Blume, S.S.
- A refinement of extrinsic criteria for scientific choice 3 (1974/75) 88
 Moravcsik, M.J.
- Assessing research output and momentum 3 (1974/75) 156
 Faust, R.E.
- Management, politics and science: A non-separable system 3 (1974/75) 244
 Blankenship, L.V.
- R & D coordination in industry and university 3 (1974/75) 360
 Steck, R.
- Reflections on Alvin M. Weinberg: a case study on the social foundations of science policy 4 (1975) 28
 Burns, E.M. and K.E. Studer
- Service cost: an approach to technological policy 4 (1975) 46
 Baruch, J.J.
- Phenomenology and models of the growth of science 4 (1975) 80
 Moravcsik, M.J.
- The rhetoric of consensus politics: a critical review of technology assessment 4 (1975) 108
 Wynne, B.
- Field studies with a Q-sort/nominal-group process for selecting R & D projects 4 (1975) 172
 Wm. Souder, E.
- The role of cost-benefit analysis in planning agricultural R & D programmes 4 (1975) 246
 Wise, W.S.

• Assessment, planning and management

- Government politics towards industrial innovation: a review 5 (1976) 11
 Pavitt, K. and W. Walker
- An educational TV satellite for India: a critical assessment 5 (1976) 158
 Melzer, A.
- Response to Burns and Studer's 'Reflections on Alvin M. Weinberg' 5 (1976) 197
 Weinberg, A.M.
- Reply to Alvin M. Weinberg 5 (1976) 201
 Burns, E.M. and K.E. Studer
- Science and technology in the European communities: the history of the COST projects 5 (1976) 270
 Aked, N.H. and P.J. Gummert
- Comment on 'Science and technology in the European communities: the history of the COST projects' 5 (1976) 295
 Klose, A.
- Market structure and strategies of R & D behavior in the data processing market - theoretical thoughts and empirical findings 5 (1976) 334
 Hoffmann, W.D.
- Evaluation of the benefits of laboratory research and information services 6 (1977) 152
 Jones, P.M.S. and A.L. Willett
- Growth of an institute 6 (1977) 294
 Hedemark, I. and M. Jul
- Toward a conceptual framework of the process of organized technological innovation within the firm 7 (1978) 150
 Baker, N.R. and D.J. Sweeney
- The development of an innovation: The case of Porvair 8 (1979) 2
 Gibbons, M. and D. Littler
- The dynamics of scientific manpower and output 8 (1979) 26
 Moravcsik, M.J. and S.G. Gibson
- Corporate decision-making for allocations to research and development 8 (1979) 46
 Kay, N.M.
- Research policy and industrial material 8 (1979) 80
 Ray, G.F.
- Influence of technology on science: A comment on some experiences at IBM research 8 (1979) 244
 Gazis, D.C.
- Setting research priorities 8 (1979) 260
 Ross, H.H., W.S. Lyon and W.D. Shults
- Innovation management for an industrial product 8 (1979) 274
 Horsmans, J.W.
- A quantitative analysis of the Science Research Council's policy of 'selectivity and concentration' 8 (1979) 306
 Farina, C. and M. Gibbons
- R & D strategy in the U.S. pharmaceutical industry 8 (1979) 364
 Schnee, J.D.
- Centres of decision in French science policy: The contrasting influences of scientific experts and administrators 8 (1979) 384
 Papon, P.
- The economic effects of innovation: Some calculations for The Netherlands 9 (1980) 54
 Spaa, J.H.
- The power and the glory: A note on patents and scientific authors 9 (1980) 104
 Macioti, M.
- Organizational aspects of Nigeria's research system 9 (1980) 148
 Clark, N.
- A study of technical innovation in Polish industry 9 (1980) 232
 Poznanski, K.
- The consequences of dissent: Sociological reflections on the controversy of the low dose effect 9 (1980) 278
 Nowotny, H. and H. Hirsch
- Evolutionary behavior of socio-technical systems 10 (1981) 26
 Bonen, Z.
- University research grants management: Accountability viewed as an exchange- the U.S. case 10 (1981) 46
 Arnow, K.S.
- Towards an understanding of technical change in semi-industrialized countries 10 (1981) 127
 Teitel, S.

- Production of microbial protein: A study of the development and introduction of a new technology
Marstrand, P.K. 10 (1981) 148
- Transfer of indigenous technology - some Indian cases 10 (1981) 172
Rajan, J.V., N.D. Seth, S.K. Subramanian, A.K. Chakrabarti and A.H. Rubenstein
- The impact of the Science Research Council's policy of selectivity and concentration on average levels of research support: 1965-1974 10 (1981) 202
Farina, C. and M. Gibbons
- Non-price factors in the export competitiveness of agricultural engineering products 10 (1981) 260
Rothwell, R.
- The present status and problems of impact research in technology policy: A case study on the federal program for funding research and development personnel in Germany 10 (1981) 356
Meyer-Krahmer, F.
- A bibliometric analysis of pharmaceutical research 12 (1983) 15
Koening, M.E.D.
- Monitoring and control in agricultural research systems: Maize in Northern India 12 (1983) 37
Biggs, S.D.
- Assessing basic research: Some partial indicators of scientific progress in radio astronomy 12 (1983) 61
Martin, B.R. and J. Irvine
- R & D price indexes and real R & D expenditures in the United States 12 (1983) 105
Mansfield, E., A. Romeo and L. Switzer
- Impacts of government incentives towards industrial innovation: An analysis of the federal programme funding R & D personnel in the Federal Republic of Germany 12 (1983) 153
Meyer-Krahmer, F., G. Gielow and U. Kuntze
- The measurement of goal attainment of governmental R & D support 12 (1983) 171
Brockhoff, K.
- Innovation behavior of small and medium-scale firms: Reform possibilities for R & D policy-making on the federal state level in the Federal Republic of Germany 12 (1983) 213
Bruder, W.
- Peer Review and national need 12 (1983) 317
Chapman, I.D. and C. Farina
- The innovative activities of researchers in Italian industry 13 (1984) 63
Sirilli, G.
- Pricing research and development services in the USSR 13 (1984) 85
Bornstein, M.
- Interpersonal communication patterns among Swedish and Boston-area entrepreneurs 13 (1984) 101
Leonard-Barton, D.
- Governmental innovation support in Norway: Micro- and macro-level effects 13 (1984) 165
Grønhaug, K. and T. Fredriksen
- Recent results in measuring innovation output 13 (1984) 175
Meyer-Krahmer, F.
- Technological innovation and industrial research in Japan 13 (1984) 285
Oshima, K.
- CERN: Past performance and future prospects III. CERN and the future of world high-energy physics 13 (1984) 311
Martin, B.R. and J. Irvine
- Innovation: Mapping the winds of creative destruction 14 (1985) 3
Abernathy, W.J. and K.B. Clark
- A graphical method for relating multiple socio-economic goals to research and development in agriculture 14 (1985) 53
Spharim, I. and N.G. Seligman
- Technological guideposts and innovation avenues 14 (1985) 61
Sahal, D.
- From the gene to the general practitioner: A paradigm of research 14 (1985) 189
Robinson, D.M., J. Moscovitz and C.J.M. Lenfant
- The interaction of design hierarchies and market concepts in technological evolution 14 (1985) 235
Clark, K.B.
- Project planning in Soviet R & D 14 (1985) 267
Fortescue, S.

• Assessment, planning and management

- The new product learning cycle 14 (1985) 299
Maidigue, M.A. and B.J. Zirger
- The flow of technological innovation in an R & D department 14 (1985) 315
de Meyer, A.C.L.
- Two perceptions of science development 15 (1986) 1
Moravcsik, M.J.
- Evaluation of performance of health research in the Netherlands 15 (1986) 33
Rigter, H.
- Imbedded technology capability (ITC) and the management of science and technology in China: A research note 15 (1986) 49
Zhou, L.Y. and A.H. Rubenstein
- The war on poverty and social science research 1965-1980 15 (1986) 53
Haveman, R.
- Management system for a scientific research institute based on the assessment of scientific publications 15 (1986) 77
Vinkler, P.
- Technological innovation in a research laboratory in India: A case study 15 (1986) 89
Chaudhuri, S.
- The process of technology transfer to the new biomedical and pharmaceutical firm 15 (1986) 107
Roberts, E.B. and O. Hauptman
- Strengthening the management of public research policy in Italy 15 (1986) 149
Bianco, L. and P. d'Anselmi
- Technological intensity: Concept and measurement 15 (1986) 187
Palda, K.S.
- An experiment in science mapping for research planning 15 (1986) 233
Healy, P., H. Rothman and P.K. Hoch
- Between dirigism and laissez-faire: Effects of implementing the science policy priority for biotechnology in the Netherlands 15 (1986) 253
Rip, A. and A.J. Nederhof
- Theoretically sound: practically useless? Government grants for industrial R & D in Australia 15 (1986) 269
Macdonald, S.
- Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy 15 (1986) 285
Teece, D.J.
- Toward a global agricultural research system: A personal view 15 (1986) 307
Ruttan, V.W.
- Focussing a co-operative industrial research institute: A case study 16 (1987) 39
Van Wijk, R.J. and J.P.H. Wessels
- Patents and the measurement of technological change: A survey of the literature 16 (1987) 131
Basberg, B.L.
- Patents as indicators of corporate technological strength 16 (1987) 143
Narin, F., E. Noma and R. Perry
- A study of innovation in the pesticide industry: Analysis of the innovation record of an industrial sector 16 (1987) 175
Achilladelis, B., A. Schwarzkopf and M. Cines
- Assessing basic research: Reappraisal and update of an evaluation of four radio astronomy observatories 16 (1987) 213
Irvine, J., B.R. Martin, J. Abraham and T. Peacock
- R & D laboratory classification and public policy: The effect of environmental context on laboratory behavior. 16 (1987) 229
Crow, M. and B. Bozeman
- Innovation in China's semiconductor components industry: The case of Shanghai 16 (1987) 259
Simon, D.F. and D. Rehn
- The distribution of benefits from technical change among classes of consumers and producers: An ex ante analysis of beans in Brazil 16 (1987) 279
Pachico, D., J.K. Lynam and P.G. Jones
- Cooperation between rivals: Informal know-how trading 16 (1987) 291
Von Hippel, E.
- Innovation can be taught 16 (1987) 303
Buijs, J.A.
- The new agricultural research and technology transfer policy agenda 16 (1987) 315
Feller, I., P. Madden, L. Kaltreider, D. Moore and L. Sims

- Social assessment of workplace technology – some experiences with the German program 'Humanization of work' Dankbaar, B. 16 (1987) 337
- Federally supported commercial technology development: Solar thermal technologies 1970-1982 Gates, W. 17 (1988) 27
- An exploration of production problems in the initial commercial manufacture of products Langowitz, N.S. 17 (1988) 43
- Implementation: A key issue in manufacturing technology: The need for a field of study Voss, C.A. 17 (1988) 55
- Citations in patents to the basic research literature Collins, P. and S. Wyatt 17 (1988) 65
- Options for mission-orientation in ecology Cramer, J. 17 (1988) 75
- The 'incentive subsidy' for government support of private R & D Fölster, S. 17 (1988) 105
- Bibliometric analysis of U.S. Pharmaceutical industry research performance Narin, F. and R.P. Rozek 17 (1988) 139
- Determinants of research output in economics departments in British universities Johnes, G. 17 (1988) 171
- A theory of white elephants: Asymmetric information in government support for technology Keck, O. 17 (1988) 187
- The national self-preoccupation of American scientists: An empirical view Frame, J.D. and F. Narin 17 (1988) 203
- Towards a cognitive model for technology-oriented R & D progress Bodewitz, H., G. de Vries and P. Weeder 17 (1988) 213
- Towards the 'cognitive management' of a research institute Courtial, J.P. and J.C. Remy 17 (1988) 225
- Implementation as mutual adaptation of technology and organization Leonard-Barton, D. 17 (1988) 251
- Research evaluation in the U.S. Forest Service: Opinions of research managers Jakes, P.J. 17 (1988) 283
- The limits of science and the scientific method Moravcsik, M.J. 17 (1988) 293
- Islands, archipelagoes and continents: Progress on the road to computer integrated manufacturing Bessant, J. and B. Haywood 17 (1988) 349
- Collaborative ventures between U.S. and foreign manufacturing firms Mowery, D.C. 18 (1989) 19
- Strategic conferencing: A new approach in science policy Vos, C.M. and C.L. Balfourt 18 (1989) 51
- Exploring the cost-efficiency of basic research funding in chemistry Averch, H.A. 18 (1989) 165
- Harnessing the capabilities of CIM: The critical role of senior management Gold, B. 18 (1989) 173
- The diffusion of industrial robots in Japan and the United States Mansfield, E. 18 (1989) 183
- Corporate strategy in the international semiconductor industry Hobday, M. 18 (1989) 225
- University research performance indicators in practice: The University Grants Committee's evaluation of British universities, 1985-1986 Phillimore, A.J. 18 (1989) 255
- Evaluation of government innovation programs: Introduction Roessner, J.D. 18 (1989) 309
- Evaluations of innovation programs in selected European countries Meyer-Krahmer, F. and P. Montigny 18 (1989) 313
- Nordic experiences of the evaluation of technical research and development Ormala, E. 18 (1989) 333
- Evaluating government innovation programs: Lessons from the U.S. experience Roessner, J.D. 18 (1989) 343

• Assessment, planning and management

- Japanese-style evaluation systems for R & D projects: The MITI experience
Tanaka, M. 18 (1989) 361
- Evaluations of innovation programs in selected European countries
McKeon, R. and J.A. Ryan 18 (1989) 379
- The dynamics of technological innovation: The case of the chemical industry
Achilladelis, B., A. Schwarzkopf and M. Cines 19 (1990) 1
- Managing innovation in multi-technology corporations
Granstrand, O. and S. Sjölander 19 (1990) 35
- Product tying and innovation in U.S. wire preparation equipment
Vanderwerf, P.A. 19 (1990) 83
- Non-linear learning in large technological firms: Period four implies chaos
Meyers, P.W. 19 (1990) 97
- The location and organisation of research and development: New horizons
Howells, J. 19 (1990) 133
- Why do firms do basic research (with their own money)?
Rosenberg, N. 19 (1990) 165
- Multinationals and internationalization of R & D: New developments in German companies
Wortmann, M. 19 (1990) 175
- Product use and product improvement
Habermeier, K.F. 19 (1990) 271
- Transputers and transputer-based parallel computers: Sociotechnical constituencies and the build-up of
British-European capabilities in information technologies
Molina, A.H. 19 (1990) 309
- Between accommodation and orchestration: The implementation of the science policy priority for biotechnology in the
Netherlands
Nederhof, A.J. 19 (1990) 379
- Task partitioning: An innovation process variable
Von Hippel, E. 19 (1990) 407
- The behavior of the innovative firm: Relations to the environment
Amendola, M. and S. Bruno 19 (1990) 419
- Characteristics of business with high R & D investment
Zif, J., D. McCarthy and A. Israeli 19 (1990) 435
- The United States, Japan and the changing technological balance
Davidson Frame, J. and F. Narin 19 (1990) 447
- Scientific and Technological Information Banks for the network management of research
Turner, W.A., B. Michelet and J.P. Courtial 19 (1990) 467
- Quantification of the performance of research units: A simple mathematical model
Englisch, H. and H.J. Czerwon 19 (1990) 477
- The diffusion of synthetic materials in the automobile industry: Towards a major breakthrough?
Amendola, G. 19 (1990) 485
- Rethinking the telecommunication infrastructure. The new 'black box'
Mansell, R. 19 (1990) 501
- Behind the scenes of performance: Performance, practice and management in medical research
Prins, A.A.M. 19 (1990) 517
- Using academic technology: Transfer methods and licensing incidence in the commercialization of American
diagnostics imaging equipment research, 1954-1988
Mitchell, W. 20 (1991) 203
- Conflicting perceptions of plans for an academic center
Myers, G. 20 (1991) 217
- The governance of innovation: Vertical integration and collaborative arrangements in the biotechnology industry
Pisano, G.P. 20 (1991) 237
- Technical and political change in basic research: The case of the European X-Ray Observatory Satellite
Barry, A. 20 (1991) 261
- The technological base of the new enterprise
Roberts, E.B. 20 (1991) 283
- Private research and public benefit: The private seed industry for sorghum and pearl millet in India
Pray, C.E., S. Ribeiro, R.A.E. Mueller and P.P. Rao 20 (1991) 315

- R & D management in Japanese research institutes 20 (1991) 531
 Sakakura, S. and M. Kobayashi
- Innovation policy making in a federalist system: Lessons from the states for US. Federal innovation policy making 20 (1991) 559
 Atkinson, R.D.
- Why are Japanese firms so innovative in engineering technology? 21 (1992) 1
 Wakasugi, R.
- The influence of technology and demand factors on firm size and industrial structure in the DRAM market 1973-1988 21 (1992) 13
 Methé, D.T.
- Agreements between firms and the technological life cycle model: Evidence from information technologies 21 (1992) 45
 Cainarca, G.C., M.G. Colombo and S. Mariotti
- Technological innovation as a gateway to entry: The case of the telecommunications equipment industry 21 (1992) 63
 Dowling, M.J. and T.W. Ruefli
- Choices in R & D and business portfolio in the electronics industry: What the bibliometric data show 21 (1992) 97
 Frumau, C.C.F.
- Origins of Japanese industrial research: Pre-war government policy and in-house research at Mitsubishi Nagasaki Shipyard 21 (1992) 197
 Fukasaku, Y.
- The management and evaluation of technological programs and the dynamics of techno-economic networks: The case of the AFME 21 (1992) 215
 Callon, M., P. Laredo, V. Rabeharisoa, T. Gonard and T. Leray
- Strategy, structure and performance in product development: Observations from the auto industry 21 (1992) 265
 Cusumano, M.A. and K. Nobeoka
- Networks and innovation in a modular system: Lessons from the microcomputer and stereo component industries 21 (1992) 297
 Langlois, R.N. and P.L. Robertson
- Explaining downstream innovation by commodity suppliers with expected innovation benefit 21 (1992) 315
 Van der Werf, P.A.
- Why do firms cooperate on R & D? An empirical study 21 (1992) 347
 Kleinknecht, A. and J.O.N. Reijnen
- Dual technological trees: Assessing the intensity and strategic significance of technological change 21 (1992) 361
 Durand, T.
- Competitive advantages from in-house scientific research: The US pharmaceutical industry in the 1980s 21 (1992) 391
 Gambardella, A.
- Institutional relationships and technology commercialization: limitations of market-based policy 21 (1992) 409
 Aram, J.D., L.H. Lynn and N.M. Reddy
- The German R & D system in transition: Empirical results and prospects of future development 21 (1992) 423
 Meyer-Krahmer, F.
- Technology policy for industrialization: An integrative framework and Korea's experience 21 (1992) 437
 Kim, L. and C.J. Dahlman
- Shifting economies: From craft production to flexible systems and software factories 21 (1992) 453
 Cusumano, M.A.
- Top managers' education and R & D investment 21 (1992) 507
 Scherer, F.M. and K. Huh
- Top managers' education and R & D investment 21 (1992) 507
 Scherer, F.M. and K. Huh
- High temperature superconductivity research in the USSR 21 (1992) 513
 Berry, M.J.
- Innovation, competition and industry structure 22 (1993) 1
 Utterback, J.M. and F. Suárez
- Innovation and learning during implementation: a comparison of user and manufacturer innovations 22 (1993) 81
 Slaughter, S.
- Government policies towards industrial innovation: a review 22 (1993) 114
 Pavitt, K. and W. Walker
- The rhetoric of consensus politics: a critical review of technology assessment 22 (1993) 116
 Wynne, B.
- Adaptability and product development in the Danish plastics industry 22 (1993) 181
 Hansen, P.A. and G. Serin

• Assessment, planning and management

- Assessing the performance of European collaborative R & D policy: The case of Eureka
Peterson, J. 22 (1993) 243
- The dynamics of technological innovation: The sector of antibacterial medicines
Achilladelis, B. 22 (1993) 279
- Patterns of collaborative innovation in the US telecommunications industry after divestiture
Zanfei, A. 22 (1993) 309
- Foreign research and developments in Swedish multinationals
Håkanson, L. and R. Nobel 22 (1993) 373
- Determinants of foreign R & D in Swedish multinationals
Håkanson, L. and R. Nobel 22 (1993) 397
- Technological learning and entrepreneurial behavior: A taxonomy of the chemical industry in Venezuela
Pirela, A., R. Rengifo, A. Mercado and R. Arvanitis 22 (1993) 431
- The battle for biotechnology: Scientific and technological paradigms and the management of biotechnology in Britain in the 1980s
Balmer, B. and M. Sharp 22 (1993) 463
- In search of insights into the generation of techno-economic trends: Micro- and macro-constituencies in the microprocessor industry.
Molina, A.H. 22 (1993) 479
- Funding for innovation in small firms: The role of government
Moore, I. and E. Garnsey 22 (1993) 507
- The dominant role of users in the scientific instrument innovation process
Von Hippel, E. 22 (1993) 103
- Technological innovation in a corporatist state: The case of biotechnology in the Federal Republic of Germany
Jasanoff, S. 22 (1993) 104
- Stages of development of industrial technology in a developing country: A model
Linsu-Kim, 22 (1993) 105
- Centers of decision in French science policy: The contrasting influences of scientific experts and administrators
Papon, P. 22 (1993) 109
- SAPPHO updated - project SAPPHO phase II
Rothwell, R., C. Freeman, A. Horsley, V.T.P. Jervis, A.B. Robertson and J. Townsend 22 (1993) 110
- Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy
Teece, D.J. 22 (1993) 112
- Analysis of R & D failure
Spiller, P.T. and M. Teubal 22 (1993) 113
- Technology and industrial innovation in Sweden: A study of technology based firms formed between 1965 and 1980
Utterback, J.M., M. Meyer, E. Roberts and G. Reitberger 22 (1993) 113
- Global R & D networks and large-scale innovations: The case of the automobile industry
Miller, R. 23 (1994) 27
- Contingencies of innovative networks: A case study of successful interfirm R & D collaboration
Häusler, J., H.W. Hohn and S. Lütz 23 (1994) 47
- Multinational enterprises and the globalization of innovatory capacity
Dunning, J.H. 23 (1994) 67
- The commercialization of RISC: Strategies for the creation of dominant designs
Khazam, J. and D.C. Mowery 23 (1994) 89
- The survival of the gatekeeper
Macdonald, S. and C. Williams 23 (1994) 123
- Linking international technology transfer with strategy and management: a literature commentary
Cusumano, M.A. and D. Elenkov 23 (1994) 195
- Technological systems and economic policy: the diffusion of factory automation in Sweden
Carlsson, B. and S. Jacobsson 23 (1994) 235
- How do rivals compete: strategy, technology and tactics
Birnbaum-More, P.H., A.R. Weiss and R.W. Wright 23 (1994) 249
- Information and innovation: a comprehensive representation
Daghfous, A. and G.R. White 23 (1994) 267
- Technological convergence and scope of organizational innovation
Harianto, F. and J.M. Pennings 23 (1994) 293

- The organization and geography of Japanese R & D: results from a survey of Japanese electronics and biotechnology firms 23 (1994) 305
 Kenney, M. and R. Florida
- Japanese corporations, scientific research and globalization 23 (1994) 375
 Hicks, D., T. Ishizuka, P. Keen and S. Sweet
- Cooperative and competitive behaviors during the process of creative destruction 23 (1994) 385
 Garud, R.
- An empirical study of hybrid forms of governance structure: the case of the telecommunication equipment industry 23 (1994) 395
 Garrette, B. and B. Quelin
- Basic research inside the firm: lessons from an in-depth case study 23 (1994) 413
 Quéré, M.
- The changing technology of technological change: general and abstract knowledge and the division of innovative labour 23 (1994) 523
 Arora, A. and A. Gambardella
- The continuing, widespread (and neglected) importance of improvements in mechanical technologies 23 (1994) 533
 Patel, P. and K. Pavitt
- Economic growth and the chemical industry 23 (1994) 583
 Landau, R.
- Learning and technical progress in the commuter aircraft industry: an analysis of Embraer's experience 23 (1994) 601
 Frischtak, C.R.
- Complex technology and community: implications for policy and social science. 23 (1994) 613
 Rycroft, R.W. and D.E. Kash
- Markets and organizations as coherent systems of innovations 23 (1994) 627
 Amendola, M. and J.L. Gaffard
- Managerial efficiency and the Schumpeterian link between size, market structure and innovation revisited 23 (1994) 653
 Bughin, J. and J.M. Jacques
- Making sense of diversity: public-private sector research linkage in three technologies 23 (1994) 673
 Faulkner, W. and J. Senker
- Cooperative research in a newly industrialized country: Taiwan 23 (1994) 697
 Wang, J.C.
- The hypercube of innovation 24 (1995) 51
 Afuah, A.N. and N. Bahram
- Cooperation and entry induction as an extension of technological rivalry 24 (1995) 77
 Kogut, B., G. Walker and D.J. Kim
- Educational statistics as an indicator of technological activity 24 (1995) 127
 Jacobsson, S. and C. Oskarsson
- Strategic technology partnering during the 1980s: trends, networks and corporate patterns in non-core technologies 24 (1995) 207
 Hagedoorn, J.
- Explaining the attacker's advantage: technological paradigms, organizational dynamics, and the value network 24 (1995) 233
 Christensen, C.M. and R.S. Rosenbloom
- Collaborative, pre-competitive R & D and the firm 24 (1995) 325
 Quintas, P. and K. Guy
- The impacts of research field evaluations on research practice 24 (1995) 349
 Luukkonen, T.
- The impacts of research field evaluations on research practice 24 (1995) 349
 Luukkonen, T.
- Small firms' innovation in two technological settings 24 (1995) 391
 Lee, J.
- The role of product architecture in the manufacturing firm 24 (1995) 419
 Ulrich, K.
- Analysis of biomedical research in Spain 24 (1995) 459
 Gómez, I., M.T. Fernández, M.A. Zulueta and J. Camí
- Is your firm a creative destroyer? Competitive learning and knowledge flows in the technological strategies of firms 24 (1995) 489
 Boisot, M.H.
- Inventive productivity 24 (1995) 507
 Narin, F. and A. Breitzman
- Technology integration: Managing technological evolution in a complex environment 24 (1995) 521
 Iansiti, M.

• Assessment, planning and management

- Innovation, networks and vertical integration 24 (1995) 543
Robertson, P.L. and R.N. Langlois
- National priorities in academic research-strategic research and contract in renewable energies 24 (1995) 563
Dalpé, R. and F. Anderson
- National priorities in academic research-strategic research and contract in renewable energies 24 (1995) 563
Dalpé, R. and F. Anderson
- A framework for model and product family competition 24 (1995) 583
Uzumeri, M. and S. Sanderson
- External partnering as a response to innovation barriers and global competition in biotechnology 24 (1995) 609
Greis, N.P., M.D. Dibner and A.S. Bean
- Of life cycles real and imaginary: The unexpectedly long old age of optical lithography 24 (1995) 631
Henderson, R.
- Evaluating technology innovation programs: the use of comparison groups to identify impacts 24 (1995) 669
Brown, M.A., T.R. Curlee and S.R. Elliott
- Predicting the most likely diffusion sequence of a new technology through the economy: The case of superconductivity 24 (1995) 685
DeBresson, C.
- Asset profiles for technological innovation 24 (1995) 727
Christensen, J.F.
- NASA, ozone, and policy-relevant science 24 (1995) 747
Lambright, W.H.
- Managing product families: The case of the Sony Walkman 24 (1995) 761
Sanderson, S. and M. Uzumeri
- Does new technology adoption pay? Electronic switching patterns and firm-level performance in US telecommunications 24 (1995) 803
Majumdar, S.K.
- The influence of business strategies on technological network activities 24 (1995) 831
Gemünden, H.G. and P. Heydebreck
- Research requirements for research impact assessment 24 (1995) 869
Kostoff, R.N.
- Quality and efficiency of basic research in molecular biology: a bibliometric analysis of thirteen excellent research institutes 24 (1995) 959
Herbertz, H. and B. Müller-Hill
- Appropriability of technical innovations. An empirical analysis 24 (1995) 981
Harabi, N.
- Internationalization of corporate technology through strategic partnering: an empirical investigation 25 (1997) 1
Duysters, G. and J. Hagedoorn
- Sources of technical innovation in the network of companies providing chemical process plant and equipment 25 (1997) 25
Hutcheson, P., A.W. Pearson and D.F. Ball
- The role of information in licensing contract design 25 (1997) 43
Macho-Stadler, I., X. Martinez-Giralt and J.D. Pérez-Castrillo
- Supplier involvement in automotive component design: are there really large US Japan differences? 25 (1997) 59
Liker, J.K., R.R. Kamath, S. Nazli Wasti and N. Nagamachi
- Linking technology and institutions: the innovation community framework 25 (1997) 91
Lynn, L.H., N.M. Reddy and J.D. Aram
- Reforming Romania's national research system 25 (1997) 107
Eisemon, T.O., I. Ionescu-Sisesti, C.H. Davis and J. Gaillard
- Flexibility trap: a case analysis of U.S. and Japanese technological choice in the digital watch industry 25 (1997) 133
Numagami, T.
- The shift to knowledge-intensive production in the plastics processing industry and its implications for infrastructure development: three case studies - New York State, England and Israel 25 (1997) 163
Yinnon, A.T.
- Evaluating industrial modernization: Introduction to the theme issue 25 (1997) 181
Shapira, P. and J.D. Roessner
- Current practices in the evaluation of US industrial modernization programs 25 (1997) 185
Shapira, P., J. Youtie and J.D. Roessner

- The role of institution-building in US industrial modernization programs
Kelley, M.R. and A. Arora 25 (1997) 265
- A measure of federalism: assessing manufacturing technology centers
Sabel, C.F. 25 (1997) 281
- Issues and perspectives on evaluating manufacturing modernization programs
Feller, I., A. Glasmeier and M. Mark 25 (1997) 309
- Effectiveness of R & D subsidies – a sceptical note on the empirical literature
Kauko, K. 25 (1997) 321
- Assessing value-added contributions of university technology business incubators to tenant firms
Mian, S.A. 25 (1997) 325
- A morphology of Japanese and European corporate research networks
Hicks, D.M., P.A. Isard and B.R. Martin 25 (1997) 359
- The innovation of agrochemicals: regulation and patent protection
Hartnell, G. 25 (1997) 379
- A literature-based innovation output indicator
Coombs, R., P. Narandren and A. Richards 25 (1997) 403
- The evaluation of national performance in selected priority areas using scientometric methods
Leydesdorff, L. and É. Gauthier 25 (1997) 431
- Design, innovation and the boundaries of the firm
Walsh, V. 25 (1997) 509
- Transaction costs and technological development: the case of the Danish fruit and vegetable industry
Foss, K. 25 (1997) 531
- Innovation and the international diffusion of environmentally responsive technology
Lanjouw, J.O. and A. Mody 25 (1997) 549
- Indicators of technological activities – comparing educational, patent and R & D statistics in the case of Sweden
Jacobsson, S., C. Oskarsson and J. Philipson 25 (1997) 573
- Towards a typological theory of project management
Shenhar, A.J. and D. Dvir 25 (1997) 607
- A composite indicator of a firm's innovativeness. An empirical analysis based on survey data for Swiss manufacturing
Hollenstein, H. 25 (1997) 633
- Patterns of technological change among Spanish innovative firms: the case of the Madrid region
Molero, J. and M. Buesa 25 (1997) 647
- Modelling the persistence of organizations in an emerging field: the case of hepatitis C
Clarysse, B., K. Debackere and M.A. Rappa 25 (1997) 671
- Government R & D expenditure and space: empirical evidence from five industrialized countries
Sternberg, R.G. 25 (1997) 741
- Strategies for technological development in South Korea and Taiwan: the case of semiconductors
Chen, C.F. and G. Sewell 25 (1997) 759
- Business strategies in more- and less- innovative firms in Canada
Baldwin, J.R. and J. Johnson 25 (1997) 785
- Evaluation of national R & D projects in Korea
Lee, M., B. Son and K. Om 25 (1997) 805
- 'Technology transfer' and the research university: a search for the boundaries of university-industry collaboration
Lee, Y.S. 25 (1997) 843
- Profile of public laboratories, industrial partnerships and organisation of R & D: the dynamics of industrial relationships in a large research organisation
Joly, P.B. and V. Mangematin 25 (1997) 901
- Technological cooperative agreements and firms' R & D intensity. A note on causality relations
Colombo, M.G. and P. Garonne 25 (1997) 923
- An evolutionary approach to technological innovation in agriculture: some preliminary remarks.
Possas, M.L., S. Salles-Filho and J.M. da Silveira 25 (1997) 933
- Spinning off and spinning on(?): the federal government role in the development of the US computer software industry
Mowery, D.C. and R.N. Langlois 25 (1997) 947
- Technology transfer and absorption: an 'R & D value-mapping' approach to evaluation
Kingsley, G., B. Bozeman and K. Coker 25 (1997) 967
- Features of policy making processes in Japan's Council for Science and Technology
Tanaka, Y. and R. Hirasawa 25 (1997) 999

• Assessment, planning and management

- Innovation and employment in Italian manufacturing industry 25 (1997) 1013
Vivarelli, M., R. Evangelista and M. Pianta
- The modern university: contributor to industrial innovation and recipient of industrial R & D support 25 (1997) 1047
Mansfield, E. and J.Y. Lee
- The determinants of overseas R & D by Japanese firms: an empirical study at the industry and company levels 25 (1997) 1059
Odagiri, H. and H. Yasuda
- The determinants of overseas R & D by Japanese firms: an empirical study at the industry and company levels 25 (1997) 1059
Odagiri, H. and H. Yasuda
- Industrial innovation in Sub-Saharan Africa: the manufacturing sector in Nigeria 25 (1997) 1081
Oyelaran-Oyeyinka, B., G.O.A. Laditan and A.O. Esubiyi
- Learning-before-doing in the development of new process technology. 25 (1997) 1097
Pisano, G.P.
- Horizontal diversification in the Danish national system of innovation: the case of pharmaceuticals 25 (1997) 1121
Laursen, K.
- A comparison of the dynamics of industrial clustering in computing and biotechnology 25 (1997) 1139
Swann, P. and M. Prevezer
- National technology gaps and trade - an empirical study of the influence of globalisation 25 (1997) 1189
Daniels, P.L.
- Measuring the unmeasurable: a country's non-R & D expenditure on product and service innovation 25 (1997) 1235
Brouwer, E. and A. Kleinknecht
- Unravelling the cognitive and interorganisational structure of public/private R & D networks: A case study of catalysis research in the Netherlands 25 (1997) 1277
Tijssen, R.J.W. and J.C. Korevaar
- What is research collaboration? 26 (1998) 1
Katz, J.S. and B.R. Martin
- Getting round the lock-in in electricity generating systems: the example of the gas turbine 26 (1998) 49
Islas, J.
- Multi-mode interaction among technologies 26 (1998) 67
Pistorius, C.W.I. and J.M. Utterback
- The globalization of R & D: Results of a survey of foreign affiliated R & D laboratories in the USA 26 (1998) 85
Florida, R.
- The role of flexibility in the development of new products: An empirical study 26 (1998) 105
Thomke, S.H.
- Decision making in research and development collaboration 26 (1998) 121
Chen, S.H.
- The technological competencies of the world's largest firms: complex and path-dependent, but not much variety 26 (1998) 141
Patel, P. and K. Pavitt
- Policy for science for policy: A commentary on Lambright on ozone depletion and acid rain 26 (1998) 157
Pielke Jr., R.A. and M.M. Betsill
- Managing large-scale technology and inter-organized relations: the case of the Channel Tunnel 26 (1998) 169
Genus, A.
- Research consortia as a vehicle for basic research: the case of a fifth generation computer project in Japan 26 (1998) 191
Odagiri, H., Y. Nakamura and M. Shibuya
- Technological diversification in the multinational corporation - historical evolution and future prospect 26 (1998) 209
Zander, I.
- From market magic to calypso science policy. A review of Terence Kealey's *"The Economic Laws of Scientific Research"* 26 (1998) 229
David, P.A.
- New, technology-based firms in innovation networks symplectic and generative impacts 26 (1998) 263
Autio, E.
- Internal R & D expenditures and external technology sourcing 26 (1998) 303
Veugelers, R.
- The increasing linkage between U.S. technology and public science 26 (1998) 317
Narin, F., K.S. Hamilton and D. Olivastro
- Growth and inventiveness in technology-based spin-off firms 26 (1998) 331
Dahlstrand, Å.L.

- From technological potential to product performance: an empirical analysis
Iansiti, M. 26 (1998) 345
- Which way to go? Defence technology and the diversity of 'dual-use' technology transfer
Molas-Gallart, J. 26 (1998) 367
- Patents, licensing, and market structure in the chemical industry
Arora, A. 26 (1998) 391
- Learning and path-dependence in the diffusion of innovations: comparative evidence on numerically controlled machine tools
Mazzoleni, R. 26 (1998) 405
- Present at the biotechnological revolution: transformation of technological identity for a large incumbent pharmaceutical firm
Zucker, L.G. and M.R. Darby 26 (1998) 429
- Evaluating government-sponsored R & D consortia in Japan: who benefits and how?
Sakakibara, M. 26 (1998) 447
- On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms
Thirtle, C., P. Palladino and J. Piesse 26 (1998) 557
- Research joint ventures in the US
Vonortas, N.S. 26 (1998) 577
- Towards knowledge-based product development: the 3-D CAD model of knowledge creation
Baba, Y. and K. Nobeoka 26 (1998) 643
- Improving the effectiveness of public-private R & D collaboration: case studies at a US weapons laboratory
Ham, R.M. and D.C. Mowery 26 (1998) 661
- Product complexity, innovation and industrial organization
Hobday, M. 26 (1998) 689
- The drivers of cooperation between buyers and suppliers for product innovation
Bidault, F., C. Despres and C. Butler 26 (1998) 719
- The influence of local search and performance heuristics on new design introduction in a new product market
Martin, X. and W. Mitchell 26 (1998) 753
- Academic research and industrial innovation: An update of empirical findings
Mansfield, E. 26 (1998) 773
- Does sticky information affect the locus of innovation? Evidence from the Japanese convenience-store industry
Ogawa, S. 26 (1998) 777
- Quantitative assessment of large heterogeneous R & D networks: the case of process engineering in the Netherlands
Tijssen, R.J.W. 26 (1998) 791
- International diffusion of a new tool: the case Electronic Data Interchange (EDI) in the retailing sector
Jimenez-Martinez, J. and Y. Polo-Redondo 26 (1998) 811
- On the dynamics of appropriability, of tacit and of codified knowledge
Saviotti, P.P. 26 (1998) 843
- Industrial research as a source of important patents
Ernst, H. 27 (1998) 1
- The evolution of technological capabilities in the multinational corporation - dispersion, duplication and potential advantages from multinationality
Zander, I. 27 (1998) 17
- A dynamic analysis of the relations between the structure and the process of National Systems of Innovation using computer simulation: the case of the Dutch biotechnological sector
Janszen, F.H.A. and G.H. Degenars 27 (1998) 37
- Simulation, learning and R & D performance: Evidence from automotive development
Thomke, S.H. 27 (1998) 55
- Optimal scale for research and development in foreign environments - an investigation into size and performance of research and development laboratories abroad
Kuemmerle, W. 27 (1998) 111
- What percentage of innovations we patented? Empirical estimates for European firms
Arundel, A. and I. Kabla 27 (1998) 127
- Partnerships in transition economies: international strategic technology alliances in Russia
Hagedoorn, J. and J.B. Sedaitis 27 (1998) 177

• Assessment, planning and management

- Technology acquisition, de-regulation and competitiveness: a study of Indian automobile industry
Narayanan, K. 27 (1998) 215
- 'Knowledge management practices' and path-dependency in innovation
Coombs, R. and R. Hull 27 (1998) 237
- Modes of experimentation: an innovation process – and competitive – variable
Thomke, S., E. Von Hippel and R. Franke 27 (1998) 315
- On the structuring of variation in innovation processes: a case of new product development in the crop protection industry
Den Hond, F. 27 (1998) 349
- Science policies as principal agent games. Institutionalization and path dependency in the relation between government and science
van der Meulen, B. 27 (1998) 397
- A typology of networks: flexible and evolutionary firms
Belussi, F. and F. Arcangeli 27 (1998) 415
- Analysis of in-house R & D centres of innovative firms in India
Sikka, P. 27 (1998) 429
- Does technological convergence imply convergence in markets? Evidence from the electronics industry
Gambardella, A. and S. Torrisi 27 (1998) 445
- The entry mode choice of MNEs: an evolutionary approach
Mutinelli, M. and L. Piscitello 27 (1998) 491
- Technological overlap and interfirm cooperation: implications for the resource-based view of the firm
Mowery, D.C., J.E. Oxley and B-S. Silverman 27 (1998) 507
- Do firms in clusters innovate more?
Baptista, R. and P. Swann 27 (1998) 525
- Patterns of internationalization of Spanish innovatory firms
Molero, J. 27 (1998) 541
- The inevitable limits of EU R & D funding
Pavitt, K. 27 (1998) 559
- Competitiveness and cohesion – are the two compatible?
Sharp, M. 27 (1998) 569
- The networks promoted by the framework programme and the questions they raise about its formulation and implementation
Larédo, P. 27 (1998) 589
- Global cooperation in research
Georghiou, L. 27 (1998) 611
- Global interdependence or the European fortress? Technology policies in perspective
Väyrynen, R. 27 (1998) 627
- The changing structure of the US national innovation system: implications for international conflict and cooperation in R & D policy
Mowery, D.C. 27 (1998) 639
- A cognitive model of innovation
Nightingale, P. 27 (1998) 689
- Innovation policies within the framework of internationalization
Jacobs, D. 27 (1998) 711
- Linking Theory and Practice: Introduction
Mayntz, R. and U. Schimank 27 (1998) 747
- Mediation in the Dutch science system
van der Meulen, B. and A. Rip 27 (1998) 757
- Research institutions in France: between the Republic of science and the nation-state in crisis
Papon, P. 27 (1998) 771
- Socialist academies of sciences: the enforced orientation of basic research at user needs
Mayntz, R. 27 (1998) 781
- The role of funding agencies in the cognitive development of science
Braun, D. 27 (1998) 807
- The norms of entrepreneurial science: cognitive effects of the new university-industry linkages
Etzkowitz, H. 27 (1998) 823

- The impact of transaction costs on the institutional structuration of collaborative academic research
Landry, R. and N. Amara 27 (1998) 901
- In search of project classification: a non-universal approach to project success factors
Dvir, D., S. Lipovetsky, A. Shenhar and A. Tishler 27 (1998) 915
- Passing the European Patent Office: evidence from the data-processing industry
van Dijk, T. and G. Duysters 27 (1998) 937
- Why has the investment performance of technology-specialist, European venture capital funds been so poor?
Murray, G.C. and R. Marriott 27 (1998) 947
- Overseas R & D and the strategic evolution of MNEs: evidence from laboratories in the UK
Pearce, R. and M. Papanastassiou 28 (1999) 23
- Transnational cooperation and policy networks in European science policy-making
Grande, E. and A. Peschke 28 (1999) 43
- Make and buy in innovation strategies: evidence from Belgian manufacturing firms
Veugelaers, R. and B. Cassiman 28 (1999) 63
- Designing the future: the culture of new trends in science and technology
Guice, J. 28 (1999) 81
- Technological globalisation and innovative centres: the role of corporate technological leadership and locational hierarchy
Cantwell, J. and O. Janne 28 (1999) 119
- Patterns of internationalisation of corporate technology: location vs. home country advantages
Patel, P. and M. Vega 28 (1999) 145
- Decentralised R & D and strategic competitiveness: globalised approaches to generation and use of technology in multinational enterprises (MNEs)
Pearce, R.D. 28 (1999) 157
- Foreign direct investment in industrial research in the pharmaceutical and electronics industries – results from a survey of multinational firms
Kuemmerle, W. 28 (1999) 179
- Canadian R & D abroad management practices
Niosi, J. and B. Godin 28 (1999) 215
- New concepts and trends in international R & D organization
Gassmann, O. and M. von Zedtwitz 28 (1999) 231
- Globalization of R & D: recent changes in the management of innovation in transnational corporations
Gerybadze, A. and G. Reger 28 (1999) 251
- Internationalization of corporate R & D: a study of Japanese and Swedish corporations
Granstrand, O. 28 (1999) 275
- Globalization of industrial R & D: an examination of foreign direct investments in R & D in the United States
Serapio Jr., M.G. and D.H. Dalton 28 (1999) 303
- The policy implications of the globalisation of innovation
Archibugi, D. and S. Iammarino 28 (1999) 317
- Failure and success: the fate of industrial policy in Latin America and South East Asia
Etzkowitz, H. and S.N. Brisolla 28 (1999) 337
- Patterns of restructuring in research, development and innovation activities in central and eastern European countries: an analysis based on S & T indicators
Radosevic, S. and L. Auriol 28 (1999) 351
- Public research and industrial innovations in Germany
Beise, M. and H. Stahl 28 (1999) 397
- The implications of network use, production network externalities and public networking programmes for firm's productivity
Koski, H. 28 (1999) 423
- Interdependencies between the science and technology infrastructure and innovation activities in German regions: empirical findings and policy consequences
Blind, K. and H. Grupp 28 (1999) 451
- The efficacy of different modes of funding research: perspectives from Australian data on the biological sciences
Bourke, P. and L. Butler 28 (1999) 489
- In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge flows in information and communication technologies research
Tijssen, R.J.W. and E. van Wijk 28 (1999) 519

• Assessment, planning and management

- The rise and fall of 'Supernet': a case study of technology transfer policy for smaller firms
Bessant, J. 28 (1999) 601
- Organizing international technological collaboration in subcontractor relationships: an investigation of the knowledge-stickiness problem
Houman Andersen, P. 28 (1999) 625
- Technological entry, exit and survival: an empirical analysis of patent data
Malerba, F. and L. Orsenigo 28 (1999) 643
- Environmental policies and innovation: a knowledge-based perspective on cooperative approaches
Aggeri, F. 28 (1999) 699
- Systems option for sustainable development - effect and limit of the Ministry of International Trade and Industry's efforts to substitute technology for energy
Watanabe, C. 28 (1999) 719
- New perspectives on the innovation strategies of multinational enterprises: lessons for technology policy in Europe
Meyer-Krahmer, F. and G. Reger 28 (1999) 749
- The construction of the techno-economic: networks vs. paradigms
Green, K., R. Hull, A. McMeekin and V. Walsh 28 (1999) 775
- Innovation and inter-firm linkages: new implications for policy
Nooteboom, B. 28 (1999) 791
- The microeconomics of manufacturing modernization programs
Feller, I. and J.P. Nelson 28 (1999) 805
- Do innovative activities matter to small firms in non-R & D-intensive industries? An application to export performance
Sterlacchini, A. 28 (1999) 817
- Technological transformations in history: how the computer regime grew out of existing computing regimes
van den Ende, J. and R. Kemp 28 (1999) 831
- A resource-based analysis of the factors determining a firm's R & D activities
Galende Del Canto, J. and I. Suárez González 28 (1999) 889

Measurement and evaluation

- The dynamics of technological innovation: The case of the chemical industry
Achilladelis, B., A. Schwarzkopf and M. Cines 19 (1990) 1
- The cost of commercializing energy inventions
Brown, M.A. 19 (1990) 147
- Issues on measuring industrial R & D
Lichtenberg, F.R. 19 (1990) 157
- Prediction of scientific performance in clinical medicine
Spangenberg, J.F.A., R. Starmans, Y.W. Bally, B. Breemhaar, F.J.N. Nijhuis and C.A.F. van Dorp 19 (1990) 239
- Universities as engines of R & D-based economic growth: They think they can
Feller, I. 19 (1990) 335
- The economic impact of industry-funded university R & D
Berman, E.M. 19 (1990) 349
- Quality evaluations in the management of basic and applied research
Luukkonen, T. and B. Stähle 19 (1990) 357
- The commercialization of government-sponsored technologies: Canadian evidence
Bhanich Supapol, A. 19 (1990) 369
- Demand and innovation: Schmookler re-examined
Kleinknecht, A. and B. Verspagen 19 (1990) 387
- The behavior of the innovative firm: Relations to the environment
Amendola, M. and S. Bruno 19 (1990) 419
- Characteristics of business with high R & D investment
Zif, J., D. McCarthy and A. Israeli 19 (1990) 435
- The United States, Japan and the changing technological balance
Davidson Frame, J. and F. Narin 19 (1990) 447
- Utility of bibliometric analysis for research policy: A case study of Spanish research in Neuroscience
Gómez, I., E. Sanz and A. Méndez 19 (1990) 457

- Scientific and Technological Information Banks for the network management of research
Turner, W.A., B. Michelet and J.P. Courtial 19 (1990) 467
- Quantification of the performance of research units: A simple mathematical model
Englisch, H. and H.J. Czerwon 19 (1990) 477
- Behind the scenes of performance: Performance, practice and management in medical research
Prins, A.A.M. 19 (1990) 517
- Morphological analysis, diffusion and lock out of technologies: Ferrous casting in France and the FRG
Foray, D. and A. Gr bler 19 (1990) 535
- Academic research and industrial innovation
Mansfield, E. 20 (1991) 1
- Resource allocation for agricultural research
Dinar, A. 20 (1991) 145
- The political economy of R & D taxonomies
Averch, H.A. 20 (1991) 179
- Direct validation of citation counts as indicators of industrially important patents
Albert, M.B., D. Avery, F. Narin and P. McAllister 20 (1991) 251
- Private research and public benefit: The private seed industry for sorghum and pearl millet in India
Pray, C.E., S. Ribeiro, R.A.E. Mueller and P.P. Rao 20 (1991) 315
- Patterns of diffusion of electronics technologies: An international comparison with special reference to the Italian case
Arcangeli, F., G. Dosi and M. Moggi 20 (1991) 515
- More evidence on the undercounting of small firm R & D
Kleinknecht, A. and J.O.N. Reijnen 20 (1991) 579
- A quantitative assessment of interdisciplinary structures in science and technology: Co-classification analysis of energy research
Tijssen, R.J.W. 21 (1992) 27
- Specialization and size of technological activities in industrial countries: The analysis of patent data
Archibugi, D. and M. Pianta 21 (1992) 79
- Choices in R & D and business portfolio in the electronics industry: What the bibliometric data show
Frumau, C.C.F. 21 (1992) 97
- The management and evaluation of technological programs and the dynamics of techno-economic networks: The case of the AFME
Callon, M., P. Laredo, V. Rabeharisoa, T. Gonard and T. Leray 21 (1992) 215
- Status report: Linkage between technology and science
Narin, F. and D. Olivastro 21 (1992) 237
- The public sector as first user of innovations
Dalp , R., C. DeBresson and H. Xiaoping 21 (1992) 251
- Academic research and industrial innovation: A further note
Mansfield, E. 21 (1992) 295
- Private and quasi-social rates of return on pharmaceutical R & D in Japan
Odagiri, H. and N. Murakami 21 (1992) 335
- Dual technological trees: Assessing the intensity and strategic significance of technological change
Durand, T. 21 (1992) 361
- Competitive advantages from in-house scientific research: The US pharmaceutical industry in the 1980s
Gambardella, A. 21 (1992) 391
- Trends in the substitution of production factors of technology - empirical analysis of the inducing impact of the energy crisis of Japanese industrial technology
Watanabe, C. 21 (1992) 481
- The effect of network structure in industrial diffusion processes
Midgley, D., P.D. Morrison and J.H. Roberts 21 (1992) 533
- Co-word based science maps of chemical engineering. Part I: Representations by direct multidimensional scaling
Peters, H.P.F. and A.F.J. Van Raan 22 (1993) 23
- Co-word-based science maps of chemical engineering. Part II: Representations by combined clustering and multidimensional scaling
Peters, H.P.F. and A.F.J. Van Raan 22 (1993) 47
- Estimating demand for SDI-related spin-off technologies
Gottinger, H.W. 22 (1993) 73

• Measurement and evaluation

- Do we need a price index for industrial R & D? 22 (1993) 195
Jankowski Jr., J.E.
- Research and development, human capital and trade performance in technology-intensive manufactures: A cross-country analysis 22 (1993) 207
Daniels, P.
- Multinational companies and technological change: Basic traits and taxonomy of the behavior of German industrial companies in Spain 22 (1993) 265
Molero, J. and M. Buesa
- The dynamics of technological innovation: The sector of antibacterial medicines 22 (1993) 279
Achilladelis, B.
- Patterns of collaborative innovation in the US telecommunications industry after divestiture 22 (1993) 309
Zanfei, A.
- Estimating the impact of R & D tax credit on strategic groups in the pharmaceutical industry 22 (1993) 337
McCutchen Jr., W.W.
- A bibliometric analysis of six economics research groups: A comparison with peer review 22 (1993) 353
Nederhof, A.J. and A.F.J. Van Raan
- On high tech snobbery 22 (1993) 455
Van Hulst, N. and B. Olds
- Government influence on process of innovation in Europe and Japan 22 (1993) 101
Allen, T.J.
- A technology gap approach to why rates differ 22 (1993) 103
Fagerberg, J.
- The roles of science in technological innovation 22 (1993) 103
Gibbons, M. and R. Johnston
- The dominant role of users in the scientific instrument innovation process 22 (1993) 103
Von Hippel, E.
- Assessing basic research 22 (1993) 106
Martin, B.R. and J. Irvine
- Evaluations of innovation programs in selected European countries 22 (1993) 106
Meyer-Krahmer, F. and P. Motigny
- Patents as indicators of corporate technological strength 22 (1993) 108
Narin, F., E. Noma and R. Perry
- Inter-industry technology flows in the United-States 22 (1993) 111
Scherer, F.M.
- The innovative activities of researchers in Italian industry 22 (1993) 111
Sirilli, G.
- Japanese-style evaluation systems for R & D projects: The MITI experience 22 (1993) 112
Tanaka, M.
- A patent-based cartography of technology 23 (1994) 1
Engelsman, E.C. and A.F.J. Van Raan
- Measuring national technological performance with patent claims data 23 (1994) 133
Tong, X. and J.D. Frame
- The measurement of technical performance of innovations by technometrics and its impact on established technology indicators 23 (1994) 175
Grupp, H.
- Tracking areas of strategic importance using scientometric journal mappings 23 (1994) 217
Leydesdorff, L., S. Cozzens and P. Van den Besselaar
- Technometric evaluation and technology policy: the case of biodiagnostic kits in Israel 23 (1994) 281
Frenkel, A., T. Reiss, S. Maital, K. Koschatzky and H. Grupp
- Institutional variations in problem choice and persistence among scientists in an emerging field 23 (1994) 425
Debackere, K. and M.A. Rappa
- Exploring the science and technology interface: inventor-author relations in laser medicine research 23 (1994) 443
Noyons, E.C.M., A.F.J. Van Raan, H. Grupp and U. Schmoch
- Incentives to innovate and the sources of innovation: the case of scientific instruments 23 (1994) 459
Riggs, W. and E. Von Hippel
- The continuing, widespread (and neglected) importance of improvements in mechanical technologies 23 (1994) 533
Patel, P. and K. Pavitt

- Distribution of growth rates in highly successful Swedish technical innovations 23 (1994) 713
McQueen, D.H.
- What is research collaboration? 26 (1998) 1
Katz, J.S. and B.R. Martin
- Smaller enterprises and innovation in the UK: the SPRU Innovations Database revisited 26 (1998) 19
Tether, B.S., I.J. Smith and A.T. Thwaites
- How persistently do firms innovate? 26 (1998) 33
Geroski, P.A., J. Van Reenen and C.F. Walters
- The technological competencies of the world's largest firms: complex and path-dependent, but not much variety 26 (1998) 141
Patel, P. and K. Pavitt
- Managing large-scale technology and inter-organized relations: the case of the Channel Tunnel 26 (1998) 169
Genus, A.
- Technological diversification in the multinational corporation - historical evolution and future prospect 26 (1998) 209
Zander, I.
- New, technology-based firms in innovation networks symplectic and generative impacts 26 (1998) 263
Autio, E.
- Internal R & D expenditures and external technology sourcing 26 (1998) 303
Veugelers, R.
- The increasing linkage between U.S. technology and public science 26 (1998) 317
Narin, F., K.S. Hamilton and D. Olivastro
- Growth and inventiveness in technology-based spin-off firms 26 (1998) 331
Dahlstrand, Å.L.
- From technological potential to product performance: an empirical analysis 26 (1998) 345
Iansiti, M.
- Present at the biotechnological revolution: transformation of technological identity for a large incumbent pharmaceutical firm 26 (1998) 429
Zucker, L.G. and M.R. Darby
- Evaluating government-sponsored R & D consortia in Japan: who benefits and how? 26 (1998) 447
Sakakibara, M.
- Why has Britain had slower R & D growth? 26 (1998) 493
Van Reenen, J.
- Price indexes for PC database software and the value of code compatibility 26 (1998) 509
Harhoff, D. and D. Moch
- Innovation in services 26 (1998) 537
Gallouj, F. and O. Weinstein
- On the organization of agricultural research in the United Kingdom, 1945-1994: A quantitative description and appraisal of recent reforms 26 (1998) 557
Thirtle, C., P. Palladino and J. Piesse
- Research joint ventures in the US 26 (1998) 577
Vonortas, N.S.
- Modeling systems of innovation: An enterprise-centered view 26 (1998) 605
Padmore, T., H. Schuetze and H. Gibson
- Improving the effectiveness of public-private R & D collaboration: case studies at a US weapons laboratory 26 (1998) 661
Ham, R.M. and D.C. Mowery
- Determinants of university participation in EU-funded R & D cooperative projects 26 (1998) 677
Geuna, A.
- Institutions and the map of science: matching university departments and fields of research 26 (1998) 711
Bourke, P. and L. Butler
- The drivers of cooperation between buyers and suppliers for product innovation 26 (1998) 719
Bidault, F., C. Despres and C. Butler
- Location of innovating activities, industrial structure and techno-industrial clusters in the French economy, 1985-1990. 26 (1998) 733
Evidence from US patenting
Bergeron, S., S. Lallich and C. Le Bas
- Academic research and industrial innovation: An update of empirical findings 26 (1998) 773
Mansfield, E.
- Quantitative assessment of large heterogeneous R & D networks: the case of process engineering in the Netherlands 26 (1998) 791
Tijssen, R.J.W.

• Measurement and evaluation

- International diffusion of a new tool: the case Electronic Data Interchange (EDI) in the retailing sector
Jimenez-Martinez, J. and Y. Polo-Redondo 26 (1998) 811
- Innovation and export behavior at the firm level
Wakelin, K. 26 (1998) 829
- Innovation systems and technological specialization in Latin America and the Caribbean
Alcorta, L. and W. Peres 26 (1998) 857
- Smaller firms and Europe's high technology sectors: a framework for analysis and some statistical evidence
Tether, B.S. and D.J. Storey 26 (1998) 947
- Industrial research as a source of important patents
Ernst, H. 27 (1998) 1
- The evolution of technological capabilities in the multinational corporation – dispersion, duplication and potential advantages from multinationality
Zander, I. 27 (1998) 17
- The nature of long-run technological change: innovation, evolution and technological systems
Leoncini, R. 27 (1998) 75
- Comparative analysis of a set of bibliometric indicators and central peer review criteria. Evaluation of condensed matter physics in the Netherlands
Rinia, E.J., Th.N. van Leeuwen, H.G. van Vuren and A.F.S. Van Raan 27 (1998) 95
- Optimal scale for research and development in foreign environments – an investigation into size and performance of research and development laboratories abroad
Kuemmerle, W. 27 (1998) 111
- What percentage of innovations we patented? Empirical estimates for European firms
Arundel, A. and I. Kabla 27 (1998) 127
- The occupational dynamics of recent Canadian engineering graduates inside and outside the bounds of technology
Lavoie, M. and R. Finnie 27 (1998) 143
- Partnerships in transition economies: international strategic technology alliances in Russia
Hagedoorn, J. and J.B. Sedaitis 27 (1998) 177
- Fiscal incentives to consumer innovation: the use of unleaded petrol in Europe
Stoneman, R. and G. Battisti 27 (1998) 187
- A comparison of networks between industry and public sector research in materials technology and biotechnology
Peters, L., P. Groenewegen and N. Fiebelkorn 27 (1998) 255
- Assessment of Flemish R & D in the field of information technology. A bibliometric evaluation based on publication and patent data, combined with OECD research input statistics
Noyons, E.C.M., M. Luwel and H.F. Moed 27 (1998) 285
- Domestic and international product-embodied R & D diffusion
Papaconstantinou, G., N. Sakurai and A. Wyckoff 27 (1998) 301
- Economic analyses of Industrial Research Institutes in developing countries: the Indian experience
Katrak, H. 27 (1998) 337
- The relevance of science and technology indicators: the case of pulp and paper
Laestadius, S. 27 (1998) 385
- Does technological convergence imply convergence in markets? Evidence from the electronics industry
Gambardella, A. and S. Torrisi 27 (1998) 445
- The entry mode choice of MNEs: an evolutionary approach
Mutinelli, M. and L. Piscitello 27 (1998) 491
- Technological overlap and interfirm cooperation: implications for the resource-based view of the firm
Mowery, D.C., J.E. Oxley and B-S. Silverman 27 (1998) 507
- Do firms in clusters innovate more?
Baptista, R. and P. Swann 27 (1998) 525
- Patterns of internationalization of Spanish innovatory firms
Molero, J. 27 (1998) 541
- Competitiveness and cohesion – are the two compatible?
Sharp, M. 27 (1998) 569
- The networks promoted by the framework programme and the questions they raise about its formulation and implementation
Larédo, P. 27 (1998) 589
- The difficulties in assessing the impact of EU framework programmes
Luukkonen, T. 27 (1998) 599

- Global cooperation in research 27 (1998) 611
Georgiou, L.
- Technical change and incorporated R & D in the service sector 27 (1998) 655
Amable, B. and S. Palombarini
- The economic impact of Canadian university R & D 27 (1998) 677
Martin, F.
- Small and large firms: sources of unequal innovations? 27 (1998) 725
Tether, B.S.
- Science-based technologies: university-industry interactions in four fields 27 (1998) 835
Meyer-Krahmer, F. and U. Schmoch
- Technological innovation in services and manufacturing: results from Italian surveys 27 (1998) 881
Sirilli, G. and R. Evangelista
- Passing the European Patent Office: evidence from the data-processing industry 27 (1998) 937
van Dijk, T. and G. Duysters
- Why has the investment performance of technology-specialist, European venture capital funds been so poor? 27 (1998) 947
Murray, G.C. and R. Marriott
- What is behind the recent surge in patenting? 28 (1999) 1
Kortum, S. and J. Lerner
- Technological globalisation and innovative centres: the role of corporate technological leadership and locational hierarchy 28 (1999) 119
Cantwell, J. and O. Janne
- Patterns of internationalisation of corporate technology: location vs. home country advantages 28 (1999) 145
Patel, P. and M. Vega
- Decentralised R & D and strategic competitiveness: globalised approaches to generation and use of technology in multinational enterprises (MNEs) 28 (1999) 157
Pearce, R.D.
- Foreign direct investment in industrial research in the pharmaceutical and electronics industries - results from a survey of multinational firms 28 (1999) 179
Kuemmerle, W.
- How do you mean 'global'? An empirical investigation of innovation networks in the multinational corporation 28 (1999) 195
Zander, I.
- Canadian R & D abroad management practices 28 (1999) 215
Niosi, J. and B. Godin
- New concepts and trends in international R & D organization 28 (1999) 231
Gassmann, O. and M. von Zedtwitz
- Globalization of R & D: recent changes in the management of innovation in transnational corporations 28 (1999) 251
Gerybadze, A. and G. Reger
- Internationalization of corporate R & D: a study of Japanese and Swedish corporations 28 (1999) 275
Granstrand, O.
- Globalization of industrial R & D: an examination of foreign direct investments in R & D in the United States 28 (1999) 303
Serapio Jr., M.G. and D.H. Dalton
- The policy implications of the globalisation of innovation 28 (1999) 317
Archibugi, D. and S. Iammarino
- Patterns of restructuring in research, development and innovation activities in central and eastern European countries: an analysis based on S & T indicators 28 (1999) 351
Radosevic, S. and L. Auriol
- Patent statistics in the age of globalisation: new legal procedures, new analytical methods, new economic interpretation 28 (1999) 377
Grupp, H. and U. Schmoch
- Public research and industrial innovations in Germany 28 (1999) 397
Beise, M. and H. Stahl
- The implications of network use, production network externalities and public networking programmes for firm's productivity 28 (1999) 423
Koski, H.
- Interdependencies between the science and technology infrastructure and innovation activities in German regions: empirical findings and policy consequences 28 (1999) 451
Blind, K. and H. Grupp

• Measurement and evaluation

- Variety and niche creation in aircraft, helicopters, motorcycles and microcomputers 28 (1999) 469
Frenken, K., P.P. Saviotti and M. Trommetter
- The efficacy of different modes of funding research: perspectives from Australian data on the biological sciences 28 (1999) 489
Bourke, P. and L. Butler
- The self-similar science system 28 (1999) 501
Katz, J.S.
- In search of the European Paradox: an international comparison of Europe's scientific performance and knowledge flows in information and communication technologies research 28 (1999) 519
Tijssen, R.J.W. and E. van Wijk
- Territorial concentration and evolution of science and technology activities in the European Union: a descriptive analysis 28 (1999) 545
Zitt, M., R. Barré, A. Sigogneau and F. Laville
- An integrated network approach to systems of innovation – the case of robotics in Japan 28 (1999) 563
Kumaresan, N. and K. Miyazaki
- R & D dynamics of creating patents in the Japanese industry 28 (1999) 587
Kondo, M.
- The rise and fall of 'Supernet': a case study of technology transfer policy for smaller firms 28 (1999) 601
Bessant, J.
- Technological entry, exit and survival: an empirical analysis of patent data 28 (1999) 643
Malerba, F. and L. Orsenigo
- The microeconomics of manufacturing modernization programs 28 (1999) 805
Feller, I. and J.P. Nelson
- Do innovative activities matter to small firms in non-R & D-intensive industries? An application to export performance 28 (1999) 817
Sterlacchini, A.



